



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

September 8, 1999

MEMORANDUM

SUBJECT: **Phosmet.** (Chemical ID No. 059201/List A Reregistration Case No. 0242).
Revised Dietary Exposure and Risk Analyses for the HED Revised Human Health Risk Assessment. No MRID #. DP Barcode No. D258080.

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THRU: Susie Chun/David Soderberg
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and

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Background/Action Requested

The Agency's preliminary "Human Health Risk Assessment and Supporting Documentation for the HED RED" was issued 10/30/98 (C. Swartz, D569026). The preliminary risk assessment included a summary of estimated chronic and acute dietary exposure and risk (C. Swartz, D250037, 10/9/98). Chronic dietary exposure estimates were based on highly refined anticipated residues; chronic risk was below HED's level of concern. Limited refinements for blended commodities were incorporated into the acute dietary exposure and risk analysis; estimated acute dietary exposure and risk exceeded the Agency's level of concern, with infants and children at >2,000% of the acute reference dose (aRfD).

Significant changes have been made in the hazard and exposure inputs used in the preliminary dietary exposure analysis. The following changes are to be incorporated into the revised dietary

exposure and risk analyses for phosmet:

- A revised acute dietary endpoint/dose for risk assessment has been selected from an acute neurotoxicity study conducted in rats;
 - The HED FQPA Safety Factor Committee removed (reduced to 1X) the safety factor required under the Food Quality Protection Act (FQPA, 1996), which was previously retained at 3X for phosmet dietary risk analyses pending submission of toxicity data;
 - HED has revised the terms used for expressing dietary risk: an acute or chronic reference dose (aRfD or RfD) which includes the FQPA factor (1X, 3X, or 10X) is now referred to as the acute or chronic Population Adjusted Dose (aPAD or cPAD);
 - An HED policy revision which allows for use of the weighted average percent crop treated (%CT) in chronic dietary exposure analyses (rather than the estimated maximum %CT) must be incorporated into revised chronic analyses;
 - A revised quantitative usage analysis (QUA) has been completed by the Biological and Economic Analysis Division (BEAD, 6/99);
 - Monitoring data consisting of composite residue values can now be incorporated into probabilistic analyses following statistical generation of residue values (decomposition) for single units of relevant commodities (i.e., “single-serving” commodities such as apples, pears, peaches, etc.);
 - The HED policy for translating monitoring data (HED SOP 99.3, 3/26/99) allows for refinement of the phosmet exposure assessment, and should be incorporated in the revised acute and chronic analyses;
 - Policies for conducting probabilistic analyses for meat and milk should be included in the revised acute analysis;
- and
- Where no monitoring data are available, the distribution of available field trial residue values, combined with percent crop treated data, should be used in the acute probabilistic analysis (the previous assessment used tolerance-level residues).

Conclusions/Summary

The highly refined (Tier 3) acute probabilistic dietary exposure and risk estimates are significantly below HED’s level of concern for the general US population and all population subgroups. The analysis was based almost entirely on monitoring data from the USDA Pesticide Data Program

(PDP) and FDA Surveillance Monitoring Program. The most highly exposed population subgroup is nursing infants; estimated exposure at the 99.9th percentile corresponds to approximately 10% of the acute PAD (aPAD). A separate analysis that excluded commodities considered to have negligible, or zero, residues (i.e., commodities in which residues were consistently less than the limit of detection) did not have a significant affect on the acute dietary exposure and risk estimates.

Chronic dietary exposure and risk are significantly below HED's level of concern, with less than 1% of the chronic PAD (cPAD) consumed for all population subgroups in all assessments. In the assessment which included all commodities and assumed 100% livestock treated for pork, the most highly exposed population subgroup was children 1-6 years old, with 0.7 %cPAD consumed. In a subsequent analysis that excluded commodities assumed to have negligible residues, exposure for children 1-6 years consumed 0.6 %cPAD. Assuming 3% livestock treated for pork (based on very limited data from only one state) resulted in dietary exposure estimates corresponding to 0.1-0.3 %cPAD for all population subgroups.

HED has concluded that although available phosmet toxicology data are suggestive of carcinogenicity, there is insufficient evidence to determine the carcinogenic potential in humans. A quantitative cancer risk assessment is not needed.

DETAILED CONSIDERATIONS

Toxicology Information

Toxicology data gaps identified in the HED preliminary risk assessment have been addressed by the registrant through submission of acute and subchronic neurotoxicity studies, an acute delayed neurotoxicity study, and a 21-day dermal toxicity study. The toxicology database for phosmet is considered to be adequate for the purpose of acute and chronic dietary risk assessment.

Phosmet was previously classified as a possible human carcinogen (HED Cancer Peer Review Committee memo, 5/26/94); the reference dose approach was used for previous chronic dietary risk assessments, i.e., the chronic reference dose was considered to be protective of carcinogenic effects. In a meeting held 9/1/99, phosmet was evaluated by the HED Cancer Assessment Review Committee (CARC) according to the 1996 Proposed Revised Guidelines for Carcinogen Risk Assessment. The Committee concluded that, based on the weight of the evidence for phosmet, there is suggestive evidence of carcinogenicity but not sufficient to assess human carcinogenic potential. A quantitative cancer risk assessment is not needed.

The revised doses and endpoints for dietary risk assessment selected by the HED Hazard Identification Assessment Review Committee (HIARC) were discussed in detail in the L. Taylor memo dated 8/4/99. A summary of this information is presented in Table 1.

Based on the available toxicity and exposure data, the HED FQPA Safety Factor Committee has decided to remove (reduce to 1X) the 3X FQPA safety factor that was previously retained due to data gaps (memo, B. Tarplee, 7/21/99). The aPAD and cPAD are therefore equivalent to the acute and chronic RfDs, respectively.

Table 1. Summary of Doses/Endpoints for Dietary Risk Assessment for Phosmet.¹

EXPOSURE SCENARIO	DOSE(mg/kg/day) [Uncertainty Factors] ²	ENDPOINT	STUDY	RfD/PAD ³ (mg/kg/day)
Acute dietary	4.5 (NOAEL) Conventional UF = 100X FQPA = 1X	Brain, RBC and Plasma ChEI; Decreased motor activity (M/F)	Acute Neurotoxicity, Rat	Acute RfD = 0.045 Acute PAD = 0.045 (aPAD)
Chronic dietary	1.1 (NOAEL) Conventional UF = 100X FQPA = 1X	Serum/Plasma ChEI	Chronic Toxicity, Rat	Chronic RfD = 0.011 Chronic PAD = 0.011 (cPAD)

¹ Refer to the L. Taylor memo dated 8/4/99. ChEI = Cholinesterase inhibition; RBC = red blood cell.

² The conventional uncertainty factor of 100X consists of 10X for interspecies extrapolation and 10X for intra-species variability.

³ RfD = Reference Dose = NOAEL/UF; PAD = Population Adjusted Dose = RfD/FQPA Safety Factor.

Usage Information

A revised quantitative usage analysis (QUA) has been completed by BEAD/OPP (Attachment 1, J. Alsadek, 6/8/99). The most significant market for phosmet in terms of pounds active ingredient is apples, at 42%; peaches constitute approximately 11% market share. The revised QUA included both the estimated maximum and weighted average percent crop treated (%CT), as well as average application rates and number of applications. Even though there are tolerances for residues in citrus, corn, tomato (import) and cranberry, there were no uses on these sites, and no registered labels permit application to these crops. An amended use on cranberry is pending; the estimated market use for cranberries would correspond to at most 35 %CT, based on public comments submitted in response to the preliminary risk assessment.

Phosmet usage on livestock was estimated for beef and dairy cattle; BEAD considered the source of these data to be reliable. Usage information for dairy cattle was not incorporated into the assessment, because labels prohibit direct dermal application to lactating dairy cattle. The estimated maximum % head treated for beef cattle was 0.22%, with an average of 0.11%. HED typically defaults to 1% CT for any usage estimates <1%. In the current assessment, the actual

livestock % head treated estimates were incorporated to provide the most refined estimates of dietary exposure and risk.

There were no reliable data available to determine phosmet usage on swine; the estimate of 3% of swine treated in Wyoming (1994 usage data) was used as a national average to refine the chronic exposure assessments, but not in the acute analysis, since HED/BEAD could not justify its use as an upper bound estimate.

HED incorporates adjustments for weighted average %CT into chronic analyses using Adjustment Factor 2 in the DEEM™ software; however, when monitoring data serve as the basis for the chronic anticipated residue (AR), the %CT is included in the AR, since the monitoring data reflect %CT. In acute analyses the adjustment for estimated maximum %CT is incorporated in the residue distribution files (RDFs) via addition of zero residue values corresponding to the % crop not treated. For commodities considered to be blended (e.g., sugars and oil), the adjustment for %CT is incorporated into the acute AR (point estimate).

Residue Data

Existing and reassessed tolerances for phosmet residues in raw agricultural commodities are expressed in terms of the combined residues of phosmet [*N*-(mercaptomethyl) phthalimide *S*-(O,O-dimethyl phosphorodithioate)] and its oxygen analog, *N*-(mercaptomethyl) phthalimide *S*-(O,O-dimethyl phosphorothioate) [CFR §180.261 (a) and (b)]. Metabolism and field trial residue data indicate parent phosmet is the most significant residue in fruit; when detected, phosmet oxon residues are generally an order of magnitude less than parent residues (refer to the 4/15/86 Reg. Std., the 3/6/90 Reg. Std. Update, and the S. Knizner memo dated 4/5/93). Combined phosmet and oxon residues were below the limit of quantitation (LOQ) of 0.05 ppm in cottonseed, nutmeats, and potatoes (following foliar use).

The residue chemistry database for phosmet is largely complete; additional studies have been required to reassess the tolerance for residues in sweet potatoes following post-harvest application of the dust formulation; supporting storage stability data must also be submitted. Geographically representative field trial data for blueberries are required. The data gaps do not preclude completion of a dietary exposure analysis, since there are adequate monitoring data available for these commodities (see below). A detailed discussion of use patterns and available field trial data is included in Attachment 2.

Monitoring Data

Extensive monitoring data for phosmet have been generated in numerous commodities through the USDA Pesticide Data Program (PDP) and the FDA Surveillance Monitoring Program. Both PDP and FDA monitoring data included only parent residues. Phosmet oxon is not recovered through the multiresidue methods used by FDA. The oxon would be detected by the PDP modified Luke method, but it was not specifically mentioned in PDP reports and summary data. Typically, HED cannot use monitoring data which does not include all residues of concern; however, the PDP data and some FDA monitoring data have been used in the current analyses for the following reasons: (i) field trial data indicate that oxon residues, when detected, are generally an order of magnitude lower than parent residues; (ii) residues in both PDP and FDA monitoring samples were significantly less than tolerance-level residues; (iii) available storage stability data indicate phosmet oxon is relatively unstable in numerous commodities; and (iv) PDP data were available for most commodities, while FDA monitoring data were used for only two commodities (cherries and blueberries). Given the available data concerning residues of parent and the metabolite phosmet oxon, HED concludes that use of PDP and FDA monitoring data (parent only) in the acute and chronic dietary exposure analyses will not underestimate dietary risk.

The PDP data are generally preferred over FDA data for use in dietary exposure and risk analyses. The USDA PDP was specifically designed for risk assessment; analysts prepare samples in a manner similar to typical consumer practices, such as washing, coring/pitting, and/or peeling. The PDP samples are 5 lb composites collected at large-scale distribution centers, just prior to sale in grocery stores, and are more likely to reflect “dinner plate” residues. The FDA samples are 20 lb composites collected for tolerance enforcement purposes, and are not washed or peeled prior to analysis; in addition, FDA samples are collected in the channels of commerce, and often represent “farm gate” residues.

An overview of the PDP (1994-1997, 1998 for pears) and FDA data (1992-1998) for phosmet is shown in Table 2. The commodities with the highest percentage of detected residues, peaches and pears, also had the highest residues detected. In addition to the 5 lb composite data for pears, PDP generated residue data on representative single pears when detectable residues were found in the associated composite sample. For this reason, the percent of detects in single pears is not a reflection of the likelihood of encountering treated pears in commerce. However, these data are useful for acute dietary risk assessment since they reflect residues in single pears.

The monitoring data indicate that residues in fruits and vegetables are expected to be significantly lower than the established and reassessed tolerances. Monitoring data for certain commodities were not included in the table, since there are no registered uses and BEAD data indicate no usage in recent years. These commodities are (# of combined PDP/FDA samples): orange (2,683), orange juice (601), lemon (137), grapefruit (167), sweet corn (1,346), tomato (1,411) and cranberry (88). Phosmet residues were detected by FDA in three lemon samples (0.27-1.06 ppm), one corn sample (0.07 ppm), and one tomato sample (0.08 ppm). The commodities listed above were excluded from the current HED dietary exposure and risk analyses, since there was no

estimated usage, and/or the residues (with the exception of one lemon sample) were minimal or less than the limit of detection (LOD).

Additional monitoring data presented in the Michigan State University/Michigan Department of Agriculture (MSU/MDA) FQPA-Targeted Residue Study included phosmet residues in apple, peach, cherry, grape and blueberry. The data were too limited (i.e., <100 samples) to be used quantitatively in the HED dietary exposure analyses, but were generally consistent with the results of FDA and PDP monitoring.

A more detailed description of the monitoring data and the approach used to determine inputs for the acute analysis and anticipated residues for the chronic analyses is included in Attachment 2.

Table 2. Summary of PDP and FDA Monitoring Data for Phosmet.

Commodity	PDP Data (1994-1997), Includes 1998 Data for Single Pears					FDA Data (1992-1998) ¹				
	# Sampled	# Detects	% Detects	Residue Range (ppm)	$\frac{1}{2}$ LOD (ppm) ²	# Sampled	# Detects	% Detects	Residue Range (ppm)	
Apple	1725	93	5.4	0.01-0.53	0.0075	1462	211	14.43	<0.01-2.27	
Apple juice	741	4	0.5	0.01	0.0066	381	2	0.5	<0.01-0.037	
Peach (fresh)	990	194	19.6	0.009-1.7	0.0083	1004	203	20	<0.01-0.424	
Peach (canned)	654	0	0		0.0060					
Pear (composite)	767	264	34.4	0.008-1.8	0.0063	426	62	14.6	<0.01-1.5	
Pear (single pears)	193	91	47.2	0.008-0.97	0.0049					
Grape	1770	20	1.1	0.01-0.5	0.0072	460	7	1.5	0.06-0.975	
Potato	1401	0	0		0.0071	1227	0	0		
Sweet potato	1178	68	5.8	0.01-0.42	0.0064	261	6	2.3	<0.01-1.06	
Sweet pea ³	1458	0	0		0.0073	520	0	0		
Milk	474	0	0		0.0015					
Blueberry						234	8	3.4	<0.01-0.93	
Cherry						416	21	5.1	<0.01-0.96	
Apricot						149	6	4.0	<0.01-0.74	
Nectarine						208	20	9.6	<0.01-0.424	
Plum						110	2	1.8	<0.01-0.11	
Kiwi						116	0	0		

¹ The FDA limit of detection (LOD) is 0.01 ppm; $\frac{1}{2}$ LOD = 0.005 ppm.

² The PDP LODs ranged from 0.002 to 0.05 for the various laboratories. Since each laboratory analyzes a different number of samples/commodity; the calculated $\frac{1}{2}$ LOD reported in the table is weighted according to the number of samples with residues <LOD reported by each laboratory.

³ The sweet (green) peas analyzed by PDP were canned and frozen.

Processing Factors

Processing factors (PFs) for juices, dried fruits, and certain cooked/canned commodities have been generated through apple and peach reduction of residue studies as well as grape, plum/prune and potato processing studies submitted through reregistration. The studies were considered to be acceptable and appropriate for use in risk assessment and tolerance reassessment [refer to the P. Deschamp memo dated 4/7/92 (D165066); the S. Funk memo dated 5/2/95 (D213103); and the C. Swartz memo dated 7/22/97 (D201834, D201850, D201897, D222699, and D230147)]. The processing/cooking studies indicate a general reduction of residues, particularly when removal of the peel is involved. Detailed results of the studies are discussed in Attachment 2. Application of the phosmet processing factors to specific food forms in DEEM™ (using Adjustment Factor 1) is described in Table 3.

Table 3. Summary of Phosmet Processing Factors.

Commodity/Processed Food Form	PF ¹	Application of PF to Relevant Food Forms in DEEM™	Rationale
Apple/juice	0.11	Apricot-juice Pear- juice	Apple: juice monitoring data were used in the analysis for apples, so the PF was not applied. ² Apricot/Pear: these RACS are juiced similarly to apples.
Apple/dried	0.10	Apples: apples-dried, dried apples Pears: dried pears	Apple: The PF was derived for the specific food form. Pear: Translation of apple PFs to other pome fruits is appropriate.
Apple/canned	0.05	Apples: cooked-NFS, boiled, canned-(all), frozen-cooked Pears: cooked, canned, boiled	Apple: The PF was derived from apple canning and applesauce PFs; the heating and boiling steps in these processes are similar to those expected for the food forms indicated. Pear: Translation of apple PFs to other pome fruits is appropriate.
Peach/peeled	0.02	Peaches-juice	Peaches are lye-peeled prior to juicing; the peeling factor was used in the absence of a PF for peach juice.
Peach/canned	0.01	Peaches: cooked-NFS, boiled Plums: cooked-NFS, Canned-NFS, Canned-NFS Apricot: cooked, boiled, canned	Peach: The PF was derived from peach canning; the heating and boiling steps in this process are similar to those expected for the food forms indicated. [Note that monitoring data were used for canned peaches, so the peach canning PF was not applied to canned peaches <i>per se</i> .] Plums/Apricot: Translation of PFs to other stone fruits is appropriate.
Peach/dried	0.04	Peaches-dried	The PF was derived for the specific food form.
Grape/juice	0.68	Grapes: juice Cherries: juice	Grape: The PF was derived for the specific food form. ² Wine/Sherry: The DEEM™ default was used; juice PFs cannot be translated to wine/sherry. Cherry: The juicing process/size of fruit are similar, and therefore the grape PF was translated to cherry.
Grape/raisins	0.92	Grapes: raisins Cherries: dried	Grape: The PF was derived for the specific food form. Cherry: The dried food form/process was deemed similar (i.e., size, skin retained).

Table 3. Summary of Phosmet Processing Factors.

Commodity/Processed Food Form	PF ¹	Application of PF to Relevant Food Forms in DEEM™	Rationale
Plum/prune	0.32	Apricot: dried Plums: dried (prune), plum/prune juice, cured	Apricot: Both plums/apricots are dried with the skin on [the PF for dried peach could not be used since it was generated from the peeled rac]. Plum/prune-dried: The PF was derived for the specific food form. Plum/prune-juice: Prune juice is made by extraction of dried prunes; the dried prune PF factor is considered to be conservative for this juicing process, which would likely result in dilution of any residues present.
Potato/chip; Potato/granule	0.5	Potato: All cooked food forms Sweet Potato: All cooked food forms.	Potato: Generation of PFs for granules and chips includes all the cooking processes (i.e. boiling, baking, frying) corresponding to the potato cooked food forms. The 0.5 PF was considered an upper bound estimate. Sweet potato: Translation of potato PFs to other root/tuber crops is appropriate.
Potato/wet peel	0.9	Potato: potato-peel only	The PF applies to the specific food form.
Cottonseed/oil	2	Cottonseed: oil	The PF was generated for the specific food form.

¹ Processing factors were entered into the DEEM™ software as Adjustment Factor 1. When no processing factors were available, the DEEM™ default factors were used, i.e., 1.92 for dried beef. When monitoring data were available for the processed commodity, Adjustment Factor 1 was set to 1.

² For juice concentrate, the ratio of DEEM™ default juice concentrate:juice PFs was maintained. If an empirical PF was used for juice, that PF was multiplied by the ratio to determine the juice concentrate PF. If monitoring data were used for juice, then the PF for juice was set to 1, and the PF for concentrate was the ratio of juice concentrate:juice PFs.

Residue Inputs for the DEEM™ Analyses

The detailed residue inputs to the acute and chronic dietary exposure analyses are shown in Table 4.

Acute Dietary Exposure

For the probabilistic acute dietary exposure analysis, the monitoring data were used to generate residue distribution files (RDFs). For the purpose of the phosmet dietary exposure analysis, commodities were considered to be non-blended (e.g., apple or peach), blended (e.g., cottonseed oil and certain dried fruits), or partially blended (e.g., juices or canned food forms of non-blended foods). Detectable residues from composite monitoring data for non-blended food forms (e.g. apples) were used to generate residue values in single units (i.e., one apple) using the methods described in the H. Allender paper dated 5/26/99 “Statistical Methods for Use of Composite Data in Acute Dietary Risk Assessment.” In order to generate the single unit residue values, HED assumed that a 5 lb composite sample consists of approximately 16 apples, 14 peaches and 19 sweet potatoes. The “decomposed” residues were then included in RDFs for the probabilistic

analysis.

For partially blended food forms, the distribution of composite monitoring data was incorporated directly into an RDF (no decomposition to generate single unit residue values). For blended food forms (e.g., dried potatoes), the average residue value was calculated and incorporated as a single point estimate residue value.

The method for using monitoring data to generate the RDFs for non-blended, partially blended and blended apple food forms is described in detail in Attachment 2; the same approach was used with monitoring data for other commodities, with some exceptions noted. Field trial data were used to generate RDFs for nuts (considered to be partially blended), while point estimates from field trials were used for cottonseed, cottonseed meal, walnut oil and dry peas (considered to be blended). The individual residue values included in the RDFs are shown in Attachment 3.

The results from cattle and swine dermal application studies were used to generate acute ARs in beef and pork commodities, while results of an oral feeding study were used to generate acute ARs in goat, horse, sheep and veal commodities. Livestock usage data for beef were incorporated into the acute analysis; the beef anticipated residues were used in RDFs, and zero residue values were added to account for the % of livestock not treated; acute residues in swine were entered as point estimates, since % head treated could not be reliably estimated. Acute RDFs were prepared for goat, sheep, horse and veal commodities as well. A detailed discussion of the livestock residue data is included in Attachment 2, and the RDFs are provided in Attachment 3.

Two different acute assessments were completed. All commodities were included in the first analysis (Assessment 1); in a second analysis (Assessment 2), commodities with residues consistently below the limit of detection (in monitoring and/or field trial data) were assumed to have negligible, or zero, residues, and were excluded from the analysis.

Chronic Dietary Exposure

Chronic anticipated residues (ARs) were calculated from monitoring data, with the exception of dry peas, nuts, and cottonseed, for which field trial data were used along with %CT estimates. The chronic ARs for beef and pork were the same as the acute ARs, but livestock usage data were incorporated using Adjustment Factor 2. The beef and pork residues reflected the 1X dermal application rate because dermal residues greatly outweigh residues resulting from consumption of treated feed. Chronic ARs in goat, horse, sheep and veal fat and MBYP were calculated using an anticipated dietary burden because dermal treatments are prohibited on these livestock . Details of the calculations are provided in Attachment 2.

Four different chronic assessments were completed. In two analyses (Assessments 1 and 3), all commodities were included, but two different assumptions were used for pork % livestock treated. In two other analyses (2 and 4), commodities with residues consistently below the limit

of detection (in monitoring and/or field trial data) were assumed to have negligible, or zero, residues and were excluded from the analyses; again, two different assumptions were used for pork % livestock treated.

Consumption Data

HED conducts dietary risk assessments using the Dietary Exposure Evaluation Model (DEEM™), which incorporates consumption data generated in USDA's Continuing Surveys of Food Intakes by Individuals (CSFII), 1989-1992. For acute dietary risk assessments, the entire distribution of consumption events for individuals is multiplied by a distribution of residues (probabilistic analysis, referred to as "Monte Carlo," risk at 99.9th percentile of exposure reported) to obtain a distribution of exposures in mg/kg/day. For chronic dietary risk assessments, the three-day average of consumption for each sub-population is combined with residues in commodities to determine average exposure in mg/kg/day.

Results

Acute and chronic dietary exposure and risk estimates were based primarily on monitoring data; relatively few anticipated residue estimates relied on field trial data. The assessments included reduction of residues during processing and cooking. These analyses are considered to be highly refined, and the only data which could further refine the risk estimates are livestock usage data for pork/swine.

Acute

Acute dietary exposure and risk estimates for phosmet are below HED's level of concern. Two acute assessments were conducted. In the first assessment (Assessment 1), all available data were incorporated into the analysis; in Assessment 2, residues in apple juice, canned peaches, potatoes, sweet peas, tree nuts, milk, and meat of goats, horses, sheep, and veal were assumed to be negligible (or zero), and these commodities were excluded from the analysis. In Assessment 1, the most highly exposed population subgroup was nursing infants (<1 year old), with approximately 10 %aPAD consumed at the 99.9th percentile of exposure. The results did not change with the exclusion of certain commodities in Assessment 2; estimated exposure to nursing infants (<1 year old) corresponded to 9.3 %aPAD at the 99.9th percentile of exposure. Detailed results of the acute dietary exposure and risk analyses are shown in Table 5.

Chronic

Four chronic assessments were completed. In Assessment 1, chronic risk was estimated using all available data, and assuming 3% livestock treated for pork; in Assessment 2, residues in apple juice, canned peaches, potatoes, sweet peas, tree nuts, milk and meat of goats, horses, sheep and veal were assumed to be negligible (i.e., zero), and these commodities were excluded from the analysis. In Assessment 3, chronic risk was estimated using all available data, and assuming 100% livestock treated for pork; Assessment 4 was similar to assessment 2 with respect to the excluded commodities, but 100% livestock treated was assumed for pork.

Chronic dietary exposure and risk were significantly below HED's level of concern, with <1% cPAD consumed for all population subgroups in all assessments. In Assessment 3 (all commodities, 100% livestock treated assumed for pork), the most highly exposed population subgroups were children 1-6 and children 7-12 years old, with 0.7% and 0.5 % of the cPAD consumed, respectively. In Assessment 4 (assuming negligible, or zero, residues in certain commodities, and 100% livestock treated for pork), the corresponding risk numbers for children 1-6 and children 1-7 years old were 0.6% and 0.5% of the cPAD consumed.

Estimated chronic dietary exposure and risk in Assessments 1 and 2 (assuming 3% livestock treated for pork) were lower, with a maximum of 0.3 %cPAD consumed for non-nursing infants (<1 year old) in Assessment 1. Results of the four assessments are shown in Table 5.

Attachments:

- Attachment 1. Phosmet Quantitative Usage Analysis (BEAD/OPP, 6/8/99).
- Attachment 2. Phosmet Residue and Monitoring Data—Detailed Discussion.
- Attachment 3. Phosmet Acute Dietary Exposure Analysis: Residue Distribution Files.
- Attachment 4. Phosmet Acute Dietary Exposure Analysis: Assessment 1.
- Attachment 5. Phosmet Acute Dietary Exposure Analysis: Assessment 2.
- Attachment 6. Phosmet Chronic Dietary Exposure Analysis: Assessment 1.
- Attachment 7. Phosmet Chronic Dietary Exposure Analysis: Assessment 2.
- Attachment 8. Phosmet Chronic Dietary Exposure Analysis: Assessment 3.
- Attachment 9. Phosmet Chronic Dietary Exposure Analysis: Assessment 4.

Secondary Review: S. Chun:7/29/99 David Soderberg:7/29/99

Dietary Exposure SAC Review:7/29/99

HED ChemSAC review of the acute and chronic ARs:8/11/99

cc: Reviewer, C. Swartz; LaShonia Richardson (HED/CEB1); List A Rereg. File
7509C:CSwartz:RRB1:CM2:Rm 722H:703 305 5877:07/28/99

Table 4. Summary of Residue Inputs for Phosmet Acute and Chronic Dietary Exposure Analyses.¹

Commodity/ Reassessed Tol. ²	% CT ³		Data Source ⁴	Commodity Classification ⁵	Food Forms ⁶	Acute Residue Distribution File (RDF) ⁷	Acute AR ⁸	Chronic AR ⁹
	Ave.	Max.						
Apple/10	23	37	PDP	NB	Uncooked, baked, boiled, fried	1000 NZ, 5865 @ ½ LOD, 11688Z		0.004423
				B	Apples-dried		0.005476	0.004423
				PB	Canned/frozen	93 NZ, 545@ ½ LOD, 1087Z		0.004423
				PB	Juice/juice concentrate	4NZ, 270 @ ½ LOD, 467Z		0.001542
				PB	Dried apples	93 NZ, 545@ ½ LOD, 1087Z		0.004423
Peach/10	13	23	PDP	NB	Uncooked, cooked, baked, boiled	1000NZ, 173@ ½ LOD, 3929Z		0.033667
				PB	Canned; dried	150 @ ½ LOD, 504Z		0.000777
				PB	Frozen, juice	194NZ, 34 @ ½ LOD, 762Z		0.033667
Apricot/5	21	28	PDP (Peach)	NB	Apricot	1000NZ., 177@ ½ LOD, 3025Z		0.036079
				PB	Juice, cooked, boiled, canned, dried	194NZ, 34 @ ½ LOD, 587Z		0.036079
Nectarine/5	14	27	PDP (Peach)	NB	Nectarine	1000NZ, 176 @ ½ LOD, 3181Z		0.024053
Plum, prune/5	4	7	PDP(Peach)	NB	Uncooked	1000NZ, 176@ ½ LOD, 15631Z		0.006872
				PB	Cooked, canned, frozen, cured, dried, juice	194NZ, 34 @ ½ LOD, 3032Z		0.006872
Pear/10	20	33	PDP	NB	Uncooked, cooked, baked, boiled	91NZ, 102Z		0.060339
				PB	Canned, juice, dried	264NZ, 503Z		0.060339
Grape/10	2	5	PDP	PB	Grape, juice, raisins, wine/sherry, juice concentrate	20NZ, 69 @ ½ LOD, 1682Z		0.001635
Kiwi/25	14	28	PDP (Grape)	NB	Kiwi fruit	20NZ, 69 @ ½ LOD, 228Z		0.009360
Potato/0.1	1	4	PDP	NB	White-peeled and white-whole: uncooked, cooked, baked, boiled, fried; white-peel only	56 @ ½ LOD, 1345Z		0.000071
				PB	White-peeled and white-whole: canned, frozen	56 @ ½ LOD, 1345Z		0.000071
				B	White-dry: cooked, boiled, fried, canned, frozen		0.000285	0.000071
Sweet Potato/tbd	4	7	PDP	NB	Cooked, baked, boiled, fried	1000NZ, 213 @ ½ LOD, 16118Z		0.006934
				PB	Canned	68NZ, 14 @ ½ LOD, 1096Z		0.006934
Succulent Pea/0.5	3	6	PDP	PB	Peas (garden)-green	87 @ ½ LOD, 1371Z		0.000220
Dry Pea/0.5	13	27	FT	B	Peas (garden)-dry		0.0135	0.05 (x 0.13)
Blueberry/tbd	20	30	FDA	PB	Blueberries	8NZ, 62 @ ½ LOD, 164Z		0.009346
Cherry/10	15	26	FDA	PB	Cherries, juice, dried	21NZ, 87 @ ½ LOD, 308Z		0.011197
Almond/0.1	4	9	FT	PB	Almonds, all tree nuts other than pecan, walnut	9NZ, 91Z		0.05 (x 0.04)
Pecan/0.1	3	10	FT	PB	Pecans	10NZ, 90Z		0.05 (x 0.03)

Table 4. Summary of Residue Inputs for Phosmet Acute and Chronic Dietary Exposure Analyses.¹

Commodity/ Reassessed Tol. ²	% CT ³		Data Source ⁴	Commodity Classification ⁵	Food Forms ⁶	Acute Residue Distribution File (RDF) ⁷	Acute AR ⁸	Chronic AR ⁹
	Ave.	Max.						
Walnut/0.1	9	25	FT	PB	Walnut	25NZ, 75Z	0.0125	0.05 (x 0.09)
					Walnut Oil			
Milk			PDP		Milk-based water, fat solids, non-fat solids, milk sugar	128 @ ½ LOD, 346Z		0.000192
Beef			DS		Meat	22NZ, 9978Z	0.036	0.036 (x0.0011)
					Fat	22NZ, 9978Z	0.043	0.043 (x0.0011)
					MBYP	22NZ, 9978Z	0.04	0.04 (x0.0011)
Pork			DS		Meat, MBYP		0.04	0.04 (x0.03)
					Fat		0.124	0.124 (x0.03)
Goat/horse/sheep/veal			PDP (milk)		Meat	128 @ ½ LOD, 346Z	0.000192	0.000192
					Fat	27NZ, 73Z	0.07	0.0007
					Kidney, MBYP	27NZ, 73Z	0.02	0.0002
Cottonseed/0.1	<1	<1	FT	B	Meal, refined oil		0.0005	0.05 (x0.01)

¹ The DEEM™ inputs for acute and chronic analyses are summarized, with the exception of processing factors (PFs), described in Table 3. The adjustment factor for %CT, Adjustment Factor 2, was not used in the acute analysis. Adjustment factor 2 was used as indicated in the chronic analysis.

² The commodity and reassessed tolerance are shown; tolerances for residues in sweet potato and blueberry have not been reassessed due to a lack of residue data.

³ Both the weighted average and estimated maximum % crop treated (%CT) are shown (refer to Attachment 1 for details).

⁴ The data sources specified correspond to PDP monitoring data (PDP), FDA monitoring data (FDA), field trial data (FT), a dermal application study (DS), and an oral livestock feeding study (FS).

⁵ For the purpose of this analysis, commodities were considered to be non-blended (NB), partially blended (PB), or blended (B).

⁶ The specific food forms in DEEM™ assumed to be non-blended, blended and partially blended for the purpose of this analysis.

⁷ Generation of residue distribution files (RDFs) is described in detail in Attachment 2; RDFs consist of detected residues, or non-zeros (NZ), residues at ½ the LOD, and zero residue values (Z).

⁸ Acute ARs were generated for blended commodities, such as dried cherries and cottonseed meal.

⁹ Chronic ARs were based on the weighted average %CT. When appropriate, the Adjustment Factor 2 to be applied in the analysis was noted parenthetically.

Table 5. Summary of Phosmet Acute and Chronic Dietary Exposure and Risk Estimates.¹

Population Subgroup	Acute Assessment 1 99.9th % ile of Exposure		Acute Assessment 2 99.9th % ile of Exposure		Chronic Assessment 1		Chronic Assessment 2		Chronic Assessment 3		Chronic Assessment 4	
	Exposure (mg/kg/day)	%aPAD	Exposure (mg/kg/day)	%aPAD	Exposure (mg/kg/day)	%cPAD	Exposure (mg/kg/day)	%cPAD	Exposure (mg/kg/day)	%cPAD	Exposure (mg/kg/day)	%cPAD
General US Population	0.001480	3.3	0.001474	3.3	0.000010	0.1	0.000008	0.1	0.000036	0.3	0.000034	0.3
All infants (<1 year)	0.002923	6.5	0.003080	6.8	0.000027	0.2	0.000019	0.2	0.000034	0.3	0.000026	0.2
Nursing infants (<1 year)	0.004278	9.5	0.004189	9.3	0.000023	0.2	0.000019	0.2	0.000028	0.3	0.000024	0.2
Non-nursing infants (<1yr)	0.002318	5.2	0.002562	5.7	0.000028	0.3	0.000019	0.2	0.000036	0.3	0.000028	0.3
Children 1-6 years	0.003362	7.5	0.003477	7.7	0.000027	0.2	0.000018	0.2	0.000073	0.7	0.000063	0.6
Children 7-12 years	0.002041	4.5	0.002048	4.6	0.000015	0.1	0.000011	0.1	0.000054	0.5	0.000050	0.5
Females 13-19 (not preg./nursing)	0.000907	2.0	0.000877	2.0	0.000006	0.1	0.000004	<0.1	0.000032	0.3	0.000030	0.3
Females 20+ years	0.001408	3.1	0.001411	3.1	0.000008	0.1	0.000007	0.1	0.000027	0.2	0.000026	0.2
Females 13-50 years	0.001310	2.9	0.001317	2.9	0.000007	0.1	0.000006	0.1	0.000028	0.3	0.000027	0.2
Males 13-19 years	0.000704	1.6	0.000729	1.6	0.000006	0.1	0.000004	0.1	0.000034	0.3	0.000032	0.3
Males 20+ years	0.001104	2.4	0.001102	2.4	0.000007	0.1	0.000006	0.1	0.000032	0.3	0.000031	0.3
Assessment Description	All commodities included.		Negligible residues assumed for some commodities.		All commodities included; 3% livestock treated assumed for pork.		Negligible residues for some commodities; 3% livestock treated assumed for pork.		All commodities included; 100% livestock treated assumed for pork.		Negligible residues for some commodities; 100% livestock treated assumed for pork.	

¹ The acute Population Adjusted Dose (aPAD) is 0.045 mg/kg/day; the chronic PAD (cPAD) is 0.011 mg/kg/day. Refer to Attachments 4-13 for details.

Attachment 1: Phosmet Quantitative Usage Analysis (BEAD, 6/99, J. Alsadek).

Quantitative Usage Analysis for Phosmet
 Case Number: 242 PC Code: 059201
 Date: June 8, 1999 Analyst: Jihad Alsadek

Based on available pesticide survey usage information for the years of 1988 through 1997, an annual estimate of phosmet's total domestic usage averaged approximately one million pounds active ingredient (a.i.) for 402,000 acres treated. Most of the acreage is treated with 3 pounds a.i. or less per application and 5 pounds a.i. per year. Phosmet is a broad spectrum insecticide (acaricide) with its largest markets in terms of total pounds active ingredient allocated to apples(42%), peaches(11%), walnuts (7%), almonds (6%), pears (5%), and alfalfa (4%). The remaining usage is primarily on cherries, pecans, potatoes, grapes, cattle & swine, and canine (dog). Crops with a high percentage of the total U.S. planted acres treated include apples (23%), apricots (21%), blueberries & pears (20%), cherries (15%), kiwifruit & nectarines (14%), peaches & dry peas (13%), while registered sites with only a small percentage of the site treated are alfalfa, cotton, woodland, canine , and cattle and swine. Most of the usage is in CA, MS, LA, WA, AND ID.

Phosmet Case #: 242 AI #: 59201 EPA's QUANTITATIVE USAGE ANALYSIS Analyst: Jihad Alsadek June 7, 1999

Site	Acres	Acres Treated (000)		% Crop Treated		Lb AI Applied (000)		Average Application Rates		States of Most Usage	
	(000)	Grown	Weighted	Est	Weighted	Est	Weighted	Est	lb ai/ acre/yr	# appl /year	lb ai/A used on this site
		Average	Max	Average	Max	Average	Max	acre/yr	/year	/appl	
Blueberries	59	12	18	20%	30%	19	30	1.6	1.6	1.0	MI NJ 90%
Apples	523	120	193	23%	37%	420	894	3.5	2.8	1.3	MI NY OH CA IN WA 51%
Apricots	19	4	5	21%	28%	10	18	2.4	1.0	2.4	CA 99%
Cherries	109	17	28	15%	26%	35	78	2.1	1.7	1.2	MI NY WI OR 85%
Kiwifruit	7	1	2	14%	28%	1	2	1.0	1.0	1.0	-
Nectarines	37	5	10	14%	27%	13	24	2.0	1.2	1.7	-
Peaches	265	35	62	13%	23%	110	201	3.1	2.0	1.6	CA AL GA TX SC CT 57%
Pears	75	15	25	20%	33%	54	103	3.6	1.8	2.0	OR CA WA 83%
Plums & Prunes	140	5	10	4%	7%	15	25	2.9	1.5	2.0	CA MI OH 85%
Grapes	830	13	41	2%	5%	21	57	1.6	1.8	0.9	CA 81%
Almonds	435	19	40	4%	9%	61	129	3.1	1.1	2.8	CA 100%
Pecans	470	16	47	3%	10%	30	132	1.9	1.6	1.2	GA OK 81%
Walnuts	204	19	51	9%	25%	87	231	4.5	1.5	3.1	CA 100%
Potatoes	1,433	20	56	1%	4%	28	84	1.4	1.5	0.9	MI ME NY PA OR VA 83%
Sweet Potatoes	84	3	6	4%	7%	14	29	4.8	4.8	1.0	MS LA 100%
Peas, Dry	166	22	44	13%	27%	12	24	0.5	1.0	0.5	WA ID 94%
Peas, Green	321	9	18	3%	6%	7	13	0.7	1.0	0.7	OR WA 86%
Alfalfa	23,701	53	129	0.2%	0.5%	37	94	0.7	1.0	0.7	CA OR WY NM MO 81%

Attachment 1: Phosmet Quantitative Usage Analysis (BEAD, 6/99, J. Alsadek).

Cotton	12,780	5	24	0.04%	0.18%	2	10	0.4	1.1	0.4	TX MS 85%
Other Crops	-	5	10	-	-	5	11	1.1	1.0	1.1	CA PA ME MA 81%
Woodland	62,089	4	12	0.01%	0.02%	0	1	-	1.0	-	MD 88%
Canine (Dog)	-	-	-	-	-	10	11	-	-	-	-
Cattle & Swine	-	-	-	-	-	19	21	-	-	-	-
Beef Cattle	-	-	-	-	-	0.11	0.22	-	-	-	-
Dairy Herd	-	-	-	0.28	0.56	-	-	-	-	-	-
Total	402	616				1,008	1,614				

COLUMN HEADINGS

Weighted average--the most recent years and more reliable data are weighted more heavily.

Est Max = Estimated maximum, which is estimated from available data.

Average application rates are calculated from the weighted averages.

NOTES ON TABLE DATA

Usage data primarily covers 1988 - 1997.

A small amount of usage was reported in the earlier years of this period for citrus, corn , and tomatoes.

A dash (-) indicates that usage/information on this site is NOT available in EPA or Proprietary Data sources or is insufficient.

Other Crops include ornamentals, popcorn, rapeseed/canola, and safflower.

SOURCES: EPA data (1988-97), USDA/NASS (1990-97), and National Center for Food and Agricultural Policy (1992), CA (1993-95), Maritz (1996, partial), Kline (1990-96, professional and consumer markets) , SRI (1994), and Wellmark International (1998), and Unicorn Laboratories (1999), The Market for Cattle Insecticides Final Repot (1995).

Attachment 2: Phosmet Residue and Monitoring Data—Detailed Discussion.

Pome Fruits

Registered labels permit application to apples at 4 lb ai/A, with up to 6 applications or a seasonal maximum of 21 lb ai/A; the label PHI is 7 days. Pears may be treated at up to 5 lb ai/A, but no seasonal maximum has been specified; the label PHI is also 7 days. The registrant has indicated that apples grown on the West Coast are treated at the 4 lb ai/A rate for codling moth control, but that East Coast apples are generally treated with a much lower rate, 1.5 lb ai/A. Usage data indicate that on the average, apples are treated approximately 3 times/year, at 1.3 lb ai/A, but pears are treated 2 times/year at approximately 2 lb ai/A.

The BEAD %CT estimates indicate an average/maximum of 23/37 %CT for apples and 20/33 %CT for pears.

Apple

Limited field trial data reflecting the 1X use rate and minimum PHI are available. The registrant generated residue decline curves to extrapolate residue values to 1X rates and minimum PHI (7 days), 14-day PHI, and 21-day PHI for use in the Gowan acute dietary exposure and risk assessment (C. Swartz, 7/28/99, D254657). In field trials where 1 - 9 applications were made at 0.4 - 1.4X rates, apples harvested at a 7-day PHI had combined phosmet residues ranging from 0.4 - 7.3 ppm.

Processing factors were generated in an apple cooking study; those in **bold** were used in the phosmet dietary exposure analyses:

Food Form	Total Residue (ppm)	Processing Factor
Raw apples	12.9	n/a
Peeled apples	1.1	0.085271 (0.09)
Canned apples	0.37	0.028682 ($\bar{x} = \mathbf{0.05}$)
Applesauce	1.00	
Unclarified juice	5.35	0.414729 (0.41)
Clarified juice	1.45	0.112403 (0.11)
Dried apples	1.27	0.09845 (0.10)

Extensive PDP and FDA monitoring data were generated for apples. The PDP monitoring data were used in the current analyses to generate Residue Distribution Files (RDFs) for the acute probabilistic analysis (non-blended and partially blended food forms), average residues for the

Attachment 2: Phosmet Residue and Monitoring Data—Detailed Discussion.

acute analysis (blended food forms), and average residues for the chronic analysis (all food forms). HED notes there are two different locations for dried apple food forms in the DEEM™ software. Apples, dried were considered to be blended, since they would likely be included as ingredients in processed commodities, such as baked goods; dried apples were considered to be partially blended, and would likely be consumed as snack food such as apples chips (personal communication from B. Tomerlin, Novigen Sciences, Inc.). Other dried fruits (e.g., pears, apricots, peaches, etc.) were considered to be partially blended in the phosmet acute dietary exposure analysis. The method used to derive the RDFs and ARs for apple commodities is described in detail below. [The same method was used to generate RDFs from monitoring data for other RACs, and the results have been included in the summary of inputs to the DEEM™ analysis (Table 4).]

Apple RDFs

Apple food forms in the DEEM™ analysis included non-blended (apples), partially blended (juice, canned apples) and blended (dried apples) food forms. A typical RDF consists of the individual detected residues, the zeros (assumed based on % crop not treated), and a certain number of residues at $\frac{1}{2}$ the limit of detection (LOD), corresponding to samples assumed to have been treated, but lacking residues above the method LOD. For non-blended food forms (NB), single unit residue values were included in the RDF; these single unit residues were generated (decomposed) using the methods described in the H. Allender paper dated 5/26/99 “Statistical Methods for Use of Composite Data in Acute Dietary Risk Assessment.” For partially blended food forms (PB), the PDP residue distribution was incorporated directly into the RDF (no decomposition). For blended food forms (B), the average of composite monitoring data was used as a single point estimate. Parameters used to generate the RDFs are:

Sampled = # composite samples reported analyzed by PDP.

Detects = # composite samples reported to have detectable residues.

% Detects = [(# Detects/# Sampled)*100].

Max CT = estimated maximum %CT

Zeros (TOTALZ) = the number of samples assumed to have zero residue values, derived from the % crop not treated and # Sampled:

TOTALZ = [1-(Est. Max %CT/100)] * #Sampled.

Tot. Det. = the sum of the detected residues, in ppm.

$\frac{1}{2}$ LOD = $\frac{1}{2}$ the weighted LOD from monitoring data.

$\frac{1}{2}$ LOD = the number of samples assumed to have residues at $\frac{1}{2}$ LOD (i.e., treated, but with no detectable residues).

$\frac{1}{2}$ LOD = [(Max CT - % Detects)/100]* # Sampled

The specific values for phosmet, partially blended apple food forms are as follows:

Attachment 2: Phosmet Residue and Monitoring Data—Detailed Discussion.

Sampled = 1725
 # Detects = **93**
 % Detects = 5.39
 Max CT = 37
 Tot. Det. = 5.343 ppm
 $\frac{1}{2}$ LOD = 0.007527 ppm
 TOTALZ = [1-(37/100)] *1725 = **1087**
 # $\frac{1}{2}$ LOD = [(37 - 5.39)/100] * 1725 = **545**

The result is an RDF consisting of 93 detected residues, 1087 zeros, and 545 residues of $\frac{1}{2}$ LOD.

For the blended commodity dried apples, the point estimate average residue for the acute analysis was calculated from the partially blended RDF:

$$AR = [\text{Tot. Det.} + \# \frac{1}{2} LOD * (\frac{1}{2} LOD)] / \# \text{ Sampled}$$

$$\text{Blended apple acute AR} = [5.343 + 545(0.007527)] / 1725 = 0.005476$$

For the non-blended apple RDF, the 93 detected residues were decomposed (assuming 16 apples/5 lb sample) to obtain a total of 1000 single unit residue values. In order to maintain the same % detects (i.e., 5.39 for apples), the number of zeros and residues at $\frac{1}{2}$ LOD were adjusted accordingly. The non-blended apple RDF consisted of:

1000 detects (decomposed single unit residues), 5865 at $\frac{1}{2}$ LOD, and 11,688 zeros.

The chronic AR was calculated using the approach described for the acute blended AR, but the weighted average %CT (23% for apples) was used in the calculation, rather than the estimated maximum. When the percent of detects exceeded the weighted average %CT (i.e., for pear), there were no residues at $\frac{1}{2}$ LOD, only zeros and detects. The incorporation of the apple monitoring data into RDFs and acute and chronic ARs are shown below; the RDFs are described in detail in Attachment 3.

RAC	# Detects/ # Sampled	% Det.	Wtd Ave %CT/ Est. Max %CT	$\frac{1}{2}$ LOD (ppm)	Tot. Det. (ppm)	Food Form Type/ Residue Distribution File	Acute AR (ppm)	Chronic AR (ppm)
Apple	93/1725	5.39	23/37	0.0075	5.343	PB/93 Det., 545@ $\frac{1}{2}$ LOD, 1087Z	B/0.005476	0.004423
						NB/1000 Det., 5865 @ $\frac{1}{2}$ LOD, 11688Z		
Juice	4/741	0.54	23/37	0.0066	0.04	PB/4 Det., 270 @ $\frac{1}{2}$ LOD, 467Z		0.001542

Other available monitoring data include 32 samples collected in the Michigan State University/Michigan Department of Agriculture (MSU/MDA) FQPA-Targeted Residue Study.

Attachment 2: Phosmet Residue and Monitoring Data—Detailed Discussion.

Out of 10 participating growers, 9 used phosmet on apples at rates ranging from 2-13 lb ai/A. In addition, 5 of 14 research growers applied phosmet at 3 lb ai/A. Actual PHIs ranged from 26-70 days, compared with the label PHI of 7 days. Phosmet residues were detected in 6 orchards, with residues ranging from 0.1-0.7 ppm, and an average of 0.22 ppm. Since at most 32 apple samples were analyzed, the MSU/MDA data could not be used quantitatively in the HED analysis, but are generally consistent with the PDP/FDA monitoring results for apples.

Because so few residues were detected in apple juice, and since the residues detected were close to the LOD, two sets of acute and chronic assessments were completed. In Assessments 1 and 3, the apple juice RDF and the chronic apple juice AR were included in the analyses. In Assessments 2 and 4, residues in apple juice were assumed to be negligible, or zero, and were excluded from the analyses.

Pear

Limited pear field trial data are available; none of the submitted field trials were conducted at the maximum 1X label rate. Pears were treated with 1 - 4 applications at 0.3 - 1.6X the maximum rate; residues in pears harvested 7 days after treatment ranged from 0.84 - 4.5 ppm. The registrant extrapolated residues to 3 applications at the 5 lb ai/A rate.

The PDP monitoring data were used to generate residue distribution files for pear commodities. Since single unit residue values were available, there was no need to decompose the detects in composite samples. However, the composite distribution was used to generate RDFs for partially blended commodities, and to generate chronic ARs.

RAC	# Detects/ # Sampled	% Det.	Wtd Ave %CT/ Est. Max %CT	½ LOD (ppm)	Tot. Det. (ppm)	Food Form Type/ Residue Distribution File	Chronic AR (ppm)
Pear	264/767	34.42	20/33	0.0064	46.28	PB/264 Det., 503Z	0.060339
Pear (Single)	91/193	47.15	20/33	0.0049	15.209	NB/91 Det., 102Z	

Stone Fruits

Peach, Nectarine, Apricot, Plum

Registered labels permit a seasonal maximum of four 3 lb ai/A applications of phosmet to peaches, with a 14-day PHI. Applications to apricots and nectarines are allowed at the same rate/PHI, but with no specification regarding the maximum number of applications. Plums may be treated with 3 lb ai/A (no maximum number of applications specified) and a 7-day label PHI.

Attachment 2: Phosmet Residue and Monitoring Data—Detailed Discussion.

Usage data suggest apricots and nectarines are typically treated once/year, at approximate rates of 1.3 and 1.7 lb ai/A, respectively. Peaches are typically treated twice/year, with an average rate of 1.6 lb ai/A. Finally, the data suggest plums/prunes are treated one or two times/year, with an average rate of 2 lb ai/A. The BEAD usage data indicate weighted average/estimated maximum %CT of 21/28, 14/27, 13/23 and 4/7 for apricots, nectarines, peaches and plums, respectively.

Peach field trial data submitted to the Agency in support of registration/reregistration included 1 - 9 applications at rates ranging from 0.3 - 1.7X the maximum 1X rate. The only two peach field trials in which 4 applications were made at rates close to 1X resulted in combined phosmet residues of 6.8 and 3.1 ppm. Residues from other field trials ranged from 0.28 - 6.4 ppm. The PHIs in the trials ranged from 9-14 days, but the two 1X trials had 14-day PHIs, as per registered labels.

Available nectarine field trial data consist of three field trials, one of which was conducted close to the 1X rate (1.3X, one application only), with a 14-day PHI. The other two field trials were conducted at 0.7X with a 16-day PHI. Residues ranged from 0.55 - 4.74 ppm.

Plum/prune field trial data were generated with 2 - 5 applications at rates ranging from 0.5 - 1X the maximum label rate, and PHIs of 7 or 8 days. The registrant submission indicated that 5 applications/season are permitted; nine of fourteen (total) plum field trials were conducted according to this use pattern, with combined phosmet residues ranging from 0.45 - 2.78 ppm. Residues from the other 5 field trials were within the range of the 1X results.

Apricot residue data were summarized in the 9/86 phosmet Registration Standard, Residue Chemistry Chapter. These data were deemed insufficient to support the existing tolerance. The data cannot be used for the purpose of risk assessment, since the only field trial (conducted at 1.3X) did not include determination of phosmet residues at 14 days following treatment. Although the Reg. Std. suggested the registrant generate plum residue data and propose a crop group tolerance, minimal stone fruit field trial data may preclude establishment of a crop group tolerance without submission of additional field trials.

Attachment 2: Phosmet Residue and Monitoring Data—Detailed Discussion.

A reduction in residues study for peaches was submitted to the Agency, and was discussed in conjunction with the review of the registrant's probabilistic acute dietary risk assessment. Peach PFs are shown below; the PFs incorporated into the HED dietary exposure analysis are shown in **bold**.

Food Form	Total Residue (ppm)	Processing Factor
Raw peaches	13.182, 10.072 (11.627)	n/a
Washed peaches	10.802	0.929044 (0.93)
Peeled peaches	0.232	0.019954 (0.02)
Canned peaches	0.125	0.010751 (0.01)
Dried peaches	0.422, 0.35	0.038015 ($\bar{x} = 0.036$) = 0.04 0.034059

Extensive PDP and FDA monitoring data have been generated for phosmet in peaches; PDP analyzed both fresh and canned peaches. There were no PDP data for other stone fruits, but FDA data were available, consisting of 100-200 samples over six years. Because of the large number of PDP peach samples (990) available over 3 years, HED has more confidence in translating the PDP peach data to other stone fruits, rather than relying on the minimal FDA data. In translating the peach monitoring data to apricots, nectarines and plums, the same rate of detection was assumed relative to the respective maximum %CT estimates.

In the acute analysis, detected residues in fresh peach composite samples were decomposed to generate a distribution single-unit residue values. These single unit residue values were then translated to other stone fruit. The resulting RDFs are summarized below, while the residues included in the RDFs are shown in Attachment 3.

Attachment 2: Phosmet Residue and Monitoring Data—Detailed Discussion.

RAC	# Detects/ # Sampled	% Det.	Wtd Ave %CT/ Est. Max %CT	½ LOD (ppm)	Tot. Det. (ppm)	Food Form Type/ Residue Distribution File	Chronic AR (ppm)
Peach (Fresh)	194/990	19.6	13/23	0.0083	33.33	PB/194 Det., 34@ ½ LOD, 762Z	0.033667
						NB/1000 Det., 173@ ½ LOD, 3929Z	
Peach (Can)	0/654	0	13/23	0.0060	0	PB/150@ ½ LOD, 504Z	0.000777
Apricot	194/815	23.8	21/28	0.0083	33.33	PB/194 Det., 34@ ½ LOD, 587Z	0.036079
						NB/1000 Det., 177@ ½ LOD, 3025Z	
Nect.	194/845	23	14/27	0.0083	33.33	PB/194 Det., 34@ ½ LOD, 617Z	0.024053
						NB/1000 Det., 176 @ ½ LOD, 3181Z	
Plum	194/3261	6	4/7	0.0083	33.33	PB/194 Det., 34@ ½ LOD, 3032Z	0.006872
						NB/1000 Det., 176@ ½ LOD, 15631Z	

In the MSU/MDA FQPA-Targeted Pesticide Residue Study, 9 of 32 growers reported using phosmet on peaches in 1998 at application rates ranging from 1.5 - 10 lb ai/A, with a mean of 4.4 lb ai/A. The interval between treatment and harvest ranged from 17-80 days, with an average of 43 days. Residues were detected in 12 samples (20.6% detection rate), ranging from 0.05 - 2.0 ppm, with a mean of 0.25 ppm. While these data were could not be used quantitatively in the HED risk assessment, they are consistent with the results of PDP and FDA monitoring in peaches.

Because no residues were detected in canned peaches, two sets of acute and chronic assessments were completed. In Assessments 1 and 3, the canned peach RDF and the chronic AR were included in the analyses. In Assessments 2 and 4, residues in canned peaches were assumed to be negligible, or zero, and were excluded from the analyses.

Cherry

Registered labels permit phosmet application to tart cherries at 1.75 lb ai/A, with a label PHI of 7 days. A maximum number of applications and maximum seasonal rate have not been specified; the registrant's probabilistic assessment indicated up to 4 applications at 1.5 lb ai/A. Phosmet may be applied to sweet cherries at 1 lb ai/A; applications are to be made prior to shuck fall. Comments submitted in response to the preliminary risk assessment indicated phosmet cannot be used on sweet cherries grown in the East due to phytotoxicity. Average application rate data generated by BEAD indicate cherries are treated 2 times per year at close to 1 lb ai/A.

The weighted average %CT for cherries is 15%, while the estimated maximum %CT is 26%; most of this usage is attributed to applications to tart cherries, which are used largely for

Attachment 2: Phosmet Residue and Monitoring Data—Detailed Discussion.
canning/processing.

Limited field trial data are available for cherries. A total of 5 field trials were conducted, 1 of which was at the 1X rate, but 5 applications were made. Two trials had 4 applications, but the application rate was less than 1X. Combined phosmet residues ranged from 0.36 to 4.59 ppm. The USDA PDP has not analyzed cherries for phosmet. However, FDA monitoring data are available, and were used to generate the cherry RDF (Attachment 3):

RAC	# Detects/ # Sampled	% Det.	Wtd Ave %CT/ Est. Max %CT	½ LOD (ppm)	Tot. Det. (ppm)	Food Form Type/ Residue Distribution File	Chronic AR (ppm)
Cherry	21/416	5.05	15/26	0.005	4.451	PB/21 Det., 87 @ ½ LOD, 308Z	0.011197

The MSU/MDA study included limited monitoring data for tart cherries grown in MI in 1998. Phosmet was used on tart cherries by 4 of 33 growers. Application rates ranged from 2-9 lb ai/A, with a mean of 4.1 lb ai/A. The PHIs ranged from 15-26 days, with a mean of 21 days. Residues were found in 3 trials, ranging from 0.04-0.2 ppm, with an average of 0.15 ppm. A washing step reduced the detected residues. While these monitoring samples cannot be used quantitatively in the HED dietary exposure analyses, they are consistent with the results of FDA monitoring.

Root and Tuber Crops

Potatoes may be treated with foliar applications of phosmet at 1 lb ai/A , with a 7-day label PHI. Registered labels do not specify a maximum number of applications or maximum seasonal application rate. Sweet potatoes but can be treated foliarly a maximum of 5 times 0.9 lb ai/A. In addition, a post-harvest dust application to sweet potatoes is permitted at 0.2 oz. ai/50 lb bushel. Usage data suggest that on the average, potatoes are treated 1 or 2 times per year at 0.9 lb ai/A, while sweet potatoes are treated (foliar vs. post-harvest use pattern not specified) 5 times at 1 lb ai/A.

The weighted average %CT and estimated maximum %CT for potatoes and sweet potatoes are 1/4 % and 4/7%, respectively. Use on sweet potatoes is concentrated in MS and LA.

In field trials conducted on potatoes, phosmet residues were not detected in tubers. The established and reassessed tolerance for residues in potatoes is based on the combined LOQ for phosmet and phosmet oxon. This tolerance is relevant for foliar applications to sweet potatoes. However, adequate data supporting the post-harvest use on stored sweet potatoes are outstanding. Available data indicate a reassessed tolerance for residues in sweet potatoes may reflect detectable residues. A potato processing study was submitted to the Agency, yielding PFs of 0.5 for chips and granules, and 0.9 for wet peel.

Attachment 2: Phosmet Residue and Monitoring Data—Detailed Discussion.

Extensive PDP and FDA monitoring data have been generated for phosmet in potatoes (no detectable residues) and sweet potatoes; the higher residues detected in FDA sweet potato monitoring samples (relative to residues detected in PDP monitoring) are likely due to the lack of washing prior to analysis. Post-harvest residue studies indicate reduction of residues through washing; sweet potatoes are generally washed after storage and prior to further processing. The PDP data were used in the current exposure and risk analysis. Since there were no residues detected in potatoes, single unit residue values were not generated. There were sufficient detectable residues in sweet potato composites, and therefore single unit residue values were generated for non-blended food forms (Attachment 3).

RAC	# Detects/ # Sampled	% Det.	Wtd Ave %CT/ Est. Max %CT	½ LOD (ppm)	Tot. Det. (ppm)	Food Form Type/ Residue Distribution File	Acute AR (ppm)	Chronic AR (ppm)
Potato	0/1401	0	1/4	0.0071	0	NB, PB/56 @ ½ LOD, 1345Z	B/0.000285	0.000071
Sweet Potato	68/1178	5.77	4/7	0.0063	8.168	PB/68 Det., 14 @ ½ LOD, 1096Z		0.006934
						NB/1000 Det., 213 @ ½ LOD, 16118Z		

The MSU/MDA study included potatoes, but phosmet was not applied by any of the growers included in the study in 1998.

Because no residues were detected in potatoes in both PDP and FDA monitoring, and since residues in tubers have never been detected in potato field trials, two sets of acute and chronic assessments were completed. In the first analysis (Assessments 1 and 3), the potato RDFs and acute (dry potatoes) and chronic ARs were included in the analyses. In Assessments 2 and 4, residues in all potato food forms were assumed to have negligible, or zero, residues and were excluded from the analyses.

Grape

Registered labels permit application of phosmet to grapes at 1.5 lb ai/A, with a 7- or 14-day PHI depending on the use rate. The maximum number of applications and maximum seasonal rate have not been specified, but the registrant's probabilistic analysis indicated 4 applications at 1.5 lb ai/A. Available data suggest most of the usage occurs in CA, with an average of 2 applications at 0.9 lb ai/A. The BEAD weighted average and maximum %CT are 2 and 5 %, respectively.

None of the available field trials included 4 applications to grapes at the maximum 1X label rate. In field trials with application rates exceeding 1 lb ai/A, a 14-day PHI resulted in total phosmet residues ranging from 1.32-8.6 ppm. In field trials with applications at <1 lb ai/A, a 7-day PHI resulted in total phosmet residues in grapes ranging from 0.36-2.1 ppm. Grape PFs of 0.68 for

Attachment 2: Phosmet Residue and Monitoring Data—Detailed Discussion.

juice and 0.92 for raisins have been generated in studies submitted to the Agency.

Extensive PDP and FDA monitoring data have been generated for grapes; the PDP data were used in the current analysis. For the purpose of this analysis, all grape food forms were considered to be partially blended, and therefore the grape composite samples were not used to generate single unit residue values (see Attachment 3).

RAC	# Detects/ # Sampled	% Det.	Wtd Ave %CT/ Est. Max %CT	½ LOD (ppm)	Tot. Det. (ppm)	Food Form Type/ Residue Distribution File	Chronic AR (ppm)
Grape	20/1770	1.13	2/5	0.0072	2.782	PB/20 Det., 69 @ ½ LOD, 1682Z	0.001635

The MSU/MDA study included grapes, but only 1 of 20 growers applied phosmet. The 1X rate and a 35-day PHI were used, resulting in 3 detectable residues of 0.2-0.7 ppm, with an average of 0.37 ppm. This information could not be used quantitatively in the HED dietary exposure analysis.

Blueberry

Applications to blueberries are currently permitted only on special local needs labels (SLN, Section 24(c)). Additional residue data are required to remove the geographic restriction for use in the NE US only. Blueberries can be treated 2 times at 1 lb ai/A, with a 3-day PHI. Usage data suggest blueberries are typically treated at the maximum label rate, either 1 or 2 times. The weighted average and estimated maximum %CT are 20 and 30%, respectively; usage is concentrated in MI and NJ.

In field trials, combined phosmet residues in blueberries ranged from 0.76-6.58 ppm. No PDP monitoring data are available, and therefore FDA surveillance monitoring data were used to generate an RDF for blueberry food forms, which were considered to be partially blended in this analysis (Attachment 3).

RAC	# Detects/ # Sampled	% Det.	Wtd Ave %CT/ Est. Max %CT	½ LOD (ppm)	Tot. Det. (ppm)	Food Form Type/ Residue Distribution File	Chronic AR (ppm)
Blueberry	8/234	3.42	20/30	0.005	1.993	PB/8 Det., 62 @ ½ LOD, 164Z	0.009346

In the MSU/MDA study, 2 of 32 participating growers applied phosmet at 1-2.7 lb ai/A, with an average of 1.8 lb ai/A; blueberries were treated either 13 or 15 days prior to harvest. Phosmet residues were not detected in the treated berries. This information could not be used quantitatively in the HED dietary exposure analysis.

Attachment 2: Phosmet Residue and Monitoring Data—Detailed Discussion.

Kiwifruit

Registered labels allow up to 6 applications per season to kiwifruit at 2 lb ai/A; a 21-day PHI is specified. Usage data suggest that on the average, 1 application is made at 1 lb ai/A. The weighted average and estimated maximum %CT are 14 and 28 %, respectively.

Field trial data for kiwi were conducted in New Zealand; no data from field trials in CA have been submitted. Combined phosmet residues in the NZ field trials were up to 25 ppm in treated kiwifruit, but only after multiple foliar applications and a 10-day PHI. The data were generated to support use on kiwi grown in New Zealand, but were deemed adequate to support the CA use pattern, which had a longer PHI (Phosmet Reg. Std.).

No PDP monitoring data for kiwifruit are available, and FDA data consisted of 116 samples, 1992-1998; these data were considered to be too limited to use in the phosmet dietary exposure analysis. Current HED policy allows for translation of grape monitoring data to kiwifruit, provided the use patterns are similar (M. Stasikowski, 3/26/99, HED SOP99.3). For phosmet, the criteria for translating grape monitoring data to kiwifruit are not strictly satisfied, since kiwi has a higher estimated %CT, and since the label PHIs differ; in addition, 6 applications are permitted on kiwi, while only 4 are proposed for application to grapes. However, HED has translated the grape PDP monitoring data to kiwifruit for the following reasons: (i) the ratio of estimated maximum %CT:weighted average %CT is the same for both crops; (ii) average application rate data generated by BEAD indicate that while the average application rates are the same for both crops, grapes are treated twice per season, while kiwi are treated only once; (iii) the available FDA monitoring data for kiwi had no detectable residues; and (iv) the detected residues in the abundant PDP monitoring data for grapes are expected to be a conservative estimate of residues in kiwi; grape composite samples were not decomposed for this reason.

Grape PDP monitoring data generated 20 samples with detectable residues, which constituted 1.13 % detects relative to the estimated maximum of 5%CT. Assuming the same likelihood of finding detectable residues in kiwi, the ratio of 1.13:5 was applied to the estimated maximum 29%CT to obtain 6.4% detects for kiwi. When the 20 detectable residues are assumed to constitute 6.4% of the total theoretical number of kiwi samples, this value is determined to be 311 total samples. Retaining the assumption for the likelihood of having treated but non-detectable residues, the RDF for kiwi consists of the 20 detects, 67 samples at ½ the weighted LOD, and 224 zeros (See Attachment 3).

Applying the same rationale/procedure to the weighted average %CT for grape and kiwi results in an average residue of 0.011368 ppm, to be used in the chronic analyses.

Peas

Peas grown in the Pacific Northwest US can be treated with phosmet at 1 lb ai/A and a 7-day

Attachment 2: Phosmet Residue and Monitoring Data—Detailed Discussion.

PHI. Registered labels do not specify a maximum number of applications or maximum seasonal rate. BEAD usage data suggest that both succulent and dry peas are treated with one application/season, at approximately 0.5 lb ai/A (0.5X). The weighted average/estimated maximum %CT for succulent and dry peas are 3/6 and 13/27, respectively.

Dry Peas

Field residue trials conducted on dry peas yielded nondetectable combined residues of phosmet and phosmet oxon (0.10 ppm). Since dry peas/beans were considered to be blended, a point estimate was generated for both acute and chronic analyses. For the acute analysis, the estimated maximum %CT (27%), applied to a residue of $\frac{1}{2}$ LOD, or 0.05 ppm, yields an AR of 0.0135 ppm. For the chronic analysis, the residue value of 0.05 was adjusted (Adjustment Factor 2) with the weighted average %CT of 13% (entered into DEEM™ as 0.13).

Succulent Peas

Field residue trials conducted on succulent peas yielded finite (0.063-0.068) residues, which could be incorporated into an RDF. However, extensive PDP and FDA monitoring data have been generated for phosmet in sweet peas; the PDP data were used in the analysis as described below. For the purpose of this analysis, succulent (green) peas were considered to be partially blended (See attachment 3).

RAC	# Detects/ # Sampled	% Det.	Wtd Ave %CT/ Est. Max %CT	$\frac{1}{2}$ LOD (ppm)	Tot. Det. (ppm)	Food Form Type/ Residue Distribution File	Chronic AR (ppm)
Peas (Sweet)	0/1458	0	3/6	0.0074	0	PB/0 Det., 87 @ $\frac{1}{2}$ LOD, 1371Z	0.000220

Because no residues were detected in sweet peas in both FDA and PDP monitoring samples, two sets of acute and chronic assessments were completed. In Assessments 1 and 3, the succulent pea RDF and the chronic AR were included in the analyses. In Assessments 2 and 4, residues in sweet peas were assumed to be negligible, or zero, and were excluded from the analyses.

Attachment 2: Phosmet Residue and Monitoring Data—Detailed Discussion.

Nuts

Almonds may be treated with phosmet once/season at 3 lb ai/A; in CA, they may be treated with phosmet twice per season at a rate of 3.7 lb ai/A. Label PHIs of 30 days are specified. Walnuts and filberts may be treated up to 5 times/season at up to 6 lb ai/A; applications may not be made after hull split or within 14 days of the PHI. Pecans may be treated with phosmet at 2.25 lb ai/A; although a minimum retreatment interval of 7 days is cited, labels do not specify a maximum number of applications. The label PHI for pecans is 14 days. Pistachios can be treated with phosmet once/season at 4 lb ai/A, with a 7-day PHI.

Average usage data indicate that almonds are treated once/season at 1 lb ai/A, while pecans are treated twice at 1 lb ai/A. Walnuts are typically treated either once or twice, at 3 lb ai/A. Weighted average/estimated maximum %CT for almonds, pecan (includes filberts) and walnuts are 4/9, 3/10 and 9/25, respectively. No %CT or average usage estimates were provided for pistachios, filberts, or other nuts. Therefore, the almond residue data were translated to other nuts.

Available field trial data submitted in support of registration/reregistration have shown that combined phosmet residues are nondetectable in nutmeats (i.e. <0.1 ppm) following treatment at 1X rates. In the chronic analyses, the residue value of 0.05 ppm ($\frac{1}{2}$ LOQ) was adjusted (via Adjustment Factor 2) with the weighted average %CT, entered into DEEM™ as a percentage. For the purpose of this acute analysis, nuts were considered to be partially blended, and therefore RDFs were prepared from field trial data. The RDFs include detects of 0.05 ppm corresponding to $\frac{1}{2}$ LOQ at the estimated maximum %CT and zeros corresponding to the % crop not treated (see Attachment 3).

RAC	Wtd Ave %CT/ Est. Max %CT	Residue Distribution File	Acute AR (ppm)	Chronic AR (ppm)	Comment
Almond	4/9	PB/9@ $\frac{1}{2}$ LOD, 91 Zeros		0.05 (x 0.04)	Translated to tree nuts other than pecan and walnut.
Pecan	3/10	PB/10@ $\frac{1}{2}$ LOD, 90 Zeros		0.05 (x 0.03)	
Walnut	9/25	PB/25 @ $\frac{1}{2}$ LOD, 90 Zeros		0.05 (x 0.09)	
Walnut oil			B/0.0125		

Since phosmet residues have never been detected in tree nuts, two sets of acute and chronic analyses were completed. In Assessments 1 and 3, the acute RDFs (and walnut AR) and chronic ARs were included in the analyses. In Assessments 2 and 4, residues in nuts were considered to be negligible, or zero, and were excluded from the analyses.

Attachment 2: Phosmet Residue and Monitoring Data—Detailed Discussion.

Cottonseed

Available field trial data support the registered use pattern for phosmet on cotton, which consists of up to 10 foliar applications of 1 lb ai/A (3-day minimum retreatment interval), with a PHI of 21 days. Combined residues in treated cottonseed were <0.1 ppm, the combined LOQ for phosmet and the oxon. Residues concentrated in refined oil, and HED has recommended for a tolerance of 0.2 ppm for phosmet residues in refined cottonseed oil.

Usage data suggest that a very low percentage of the US cotton crop is treated with phosmet, since both the weighted average and estimated maximum %CT were less than 1%. Phosmet is most likely used in TX and MS, on an average of once per season, at approximately 1 lb ai/A.

Since all cottonseed food forms for human consumption were considered to be blended, the seed AR used for both acute and chronic analysis was $\frac{1}{2}$ LOQ, corrected for <1%CT, or 0.0005 ppm; in the chronic analysis, the adjustment for %CT was made using Adjustment Factor 2 in DEEM™. The cottonseed oil AR was the same as the meal AR, but a PF of 2 was applied via adjustment factor 1.

Meat/Milk

Extensive PDP monitoring data have been generated for phosmet in milk. No residues were detected in 474 milk samples, with a weighted average LOD of 0.001477 ppm. The livestock feed item with the highest %CT is dry peas, with an estimated maximum of 27%CT. Therefore, for the acute analysis, 27% of the milk monitoring data samples were assumed to have a residue of $\frac{1}{2}$ the weighted average LOD, while the remaining 73% were assigned zero residue values.

The average phosmet residue in milk was calculated based on the weighted average of dry pea %CT, or 13%. The average residue was calculated from 13% of the monitored samples assumed to have a residue value of $\frac{1}{2}$ LOD, and 87% assumed to have zero residue values. The average residue in milk for the chronic analyses is 0.000192 ppm.

Feed-related secondary residues in livestock are expected to be negligible (refer to the 11/23/98 revised Residue Chemistry Chapter of the HED RED, C. Swartz, D250029). However, dermal application to cattle (non-lactating) and swine could result in finite residues, according to the submitted data, and the reassessed tolerances were largely based on residues resulting from dermal application.

For the purpose of risk assessment, the maximum detected residues in cattle and swine meat and meat by-products from dermal application studies reflecting a 1X application were used in the DEEM™ analysis. The relevant residues were discussed in the 11/23 document: for cattle (beef), phosmet ARs are 0.036 ppm in meat, 0.043 ppm in fat, and 0.04 ppm in liver/kidney. For swine (pork), phosmet ARs are 0.04 in meat, liver and kidney, and 0.124 ppm in fat. The cattle ARs

Attachment 2: Phosmet Residue and Monitoring Data—Detailed Discussion.

were not translated to other livestock (goats, horses, sheep and veal) since dermal use is permitted for only non-lactating dairy cattle and swine.

Livestock usage data were included in the quantitative usage analysis; the estimated maximum % head treated is 0.22% for beef cattle, with a weighted average of 0.11%. HED typically defaults to 1%CT when usage estimates are <1%; however, in the current analyses, the precise BEAD livestock usage estimates were incorporated to provide the most refined estimate of exposure and risk. [Usage data were provided for dairy cattle, but were not included in the current analysis since labels prohibit application to lactating dairy cattle.] Available swine usage data were not considered to be reliable for acute dietary risk assessment, but were incorporated in the chronic analyses, at 3% head treated. Based on an estimated maximum of 0.22%, residue distribution files were created for beef commodities for the acute analysis, consisting of 22 detects at the respective ARs described above and 9,978 zeros. In the chronic analyses, the adjustment for % livestock treated (beef and swine) was made using Adjustment Factor 2.

For goats, horses and sheep, the acute ARs were 0.07 ppm in fat and 0.02 ppm in kidney; residues in liver were 0 ppm, and therefore liver (of goats, horses and sheep) was excluded from the acute analyses. These were the residues found in the respective commodities at the 1.1X feeding level in the cattle feeding study. The fat and kidney residues were incorporated into RDFS consisting of 27 residues (reflecting the highest estimated maximum %CT for any livestock feed item, dry peas) and 73 zeros. The 1X feeding level in the feeding studies was considered to be approximately 100X the anticipated dietary burden, and therefore in the chronic analysis, the ARs of 0.0007 ppm in fat and 0.0002 ppm in kidney of goats, horses, sheep and veal were used.

For meats (other than cattle and swine), the PDP milk monitoring data have been translated, as per HED SOP99.3. The translation of non-detect milk monitoring data to meat (of goats, horses, sheep and veal) is supported by the feeding study results in which phosmet residues in meat at the 1.1X feeding level (100X the anticipated feeding level) were 0.05 ppm. The RDF generated for milk using PDP monitoring data was used for meat of horses, goats, sheep and veal in the acute analysis, and the chronic milk AR of 0.000192 ppm was translated to these commodities in the chronic analysis.

Since phosmet residues have not been detected in the milk monitoring data, two sets of acute and chronic analyses were completed. In Assessments 1 and 3, the milk acute RDF and chronic ARs were incorporated; in Assessments 2 and 4, residues in milk were assumed to be negligible, or zero, and were excluded from the acute and chronic analyses, as were the meats of goats, horses, sheep, and veal.

Attachment 3: Phosmet Acute Dietary Exposure Analysis: Residue Distribution Files.

Phosmet: Apple Juice Composites [PDP Monitoring Data]

$\frac{1}{2}$ Wtd. LOD = 0.0066

TOTALZ=467

270,0.0066

4,0.01

Phosmet: Almonds = Filberts, Field Trial Data/No Detects

Est. Max %CT=9

$\frac{1}{2}$ LOD = 0.05

TOTALZ=91

9,0.05

Phosmet: Canned Peaches Partially Blended [PDP Monitoring Data NDs]

$\frac{1}{2}$ Wtd. LOD = 0.0060

TOTALZ=504

150,0.006

Phosmet: Potato File [All Potatoes, PDP Monitoring, NDs]

$\frac{1}{2}$ Wtd. LOD = 0.0071

TOTALZ=1345

56,0.0071

Phosmet: Blueberry, Partially Blended [FDA Monitoring Data]

$\frac{1}{2}$ LOD = 0.005

TOTALZ=164

62,0.005

0.933

0.22

0.046

0.303

0.35

0.01

0.034

0.097

Phosmet: Milk RDF [PDP Monitoring Data, NDs]

$\frac{1}{2}$ Wtd. LOD = 0.0015

TOTALZ=346

128,0.0015

Phosmet: Succulent Peas [PDP Monitoring Data, NDs]

$\frac{1}{2}$ Wtd. LOD = 0.0073

TOTALZ=1371

87,0.0073

Phosmet: Beef meat RDF

TOTALZ=9978

22,0.036

Attachment 3: Phosmet Acute Dietary Exposure Analysis: Residue Distribution Files.

Phosmet: Beef Fat RDF

TOTALZ=9978

22,0.043

Phosmet: Beef liver/kidney RDF

TOTALZ=9978

22,0.04

Phosmet: Goat kidney (horse/sheep/veal) RDF

TOTALZ=73

27,0.02

Phosmet: Goat fat (horse/sheep/veal) RDF

TOTALZ=73

27,0.07

Phosmet: Cherry Partially Blended [FDA Monitoring Data]

½ LOD = 0.005

TOTALZ=308

87,0.005

0.112

0.362

0.068

0.068

0.96

0.088

0.25

0.01

0.161

0.01

0.307

0.03

0.08

0.45

0.9

0.04

0.01

0.323

0.01

0.01

0.232

0.01

Attachment 3: Phosmet Acute Dietary Exposure Analysis: Residue Distribution Files.

Phosmet: Walnut, Field Trial Data/No Detects

Est. Max %CT=25

½ LOD = 0.05

TOTALZ=75

25,0.05

Phosmet, Apple Non-Blended [decomposite from PDP monitoring]

½ Wtd LOD = 0.0075

TOTALZ=11688

5865,0.0075	0.0011	0.1276	0.0018	0.0023	0.0190
0.0147	0.0024	0.0008	0.0297	0.0006	0.0373
0.0140	0.0015	0.0926	0.0086	0.0090	0.0060
0.0160	0.0130	0.0014	0.0067	0.0119	0.0085
0.3164	0.0016	0.1024	0.6366	0.0616	0.0087
0.0069	0.0082	0.1507	0.0422	0.0398	0.0082
0.0061	0.0475	0.0024	0.0037	0.0095	0.0146
0.0417	0.0032	0.0016	0.0262	0.0064	0.0365
0.0010	0.0066	0.0251	0.0369	0.0072	0.0330
0.0051	0.0701	0.0166	0.0011	0.0001	0.0045
0.1239	0.0552	0.1350	0.0062	0.0380	0.1970
0.0401	0.0017	0.0277	0.0032	0.0059	0.0184
0.0245	0.0280	0.0093	0.0235	0.0008	0.0060
0.0121	0.9315	0.0006	0.0304	0.2479	0.1780
0.0032	0.0002	0.0296	0.0078	0.0193	0.0153
0.0675	0.0850	0.0115	0.0047	0.0509	0.0022
0.1219	0.1449	0.0017	0.0595	0.1178	0.0004
0.0629	0.0258	0.4097	0.0013	0.0221	0.0054
0.0092	0.0007	0.0113	0.0410	0.0129	0.0002
0.1194	0.0719	0.0020	0.4463	0.0005	0.0040
0.0173	0.1030	0.1745	0.0054	0.0044	0.1856
0.0114	0.0337	0.0048	0.0084	0.0425	0.0019
0.0001	0.0041	0.1477	0.0031	0.0030	0.0035
0.3431	0.0047	0.2359	0.0753	0.0116	0.0081
0.0497	0.0105	0.0348	0.0118	0.0039	0.0027
0.0057	0.0013	0.0196	0.0909	0.7601	0.0318
0.0139	0.0183	0.0234	0.0156	0.0170	0.0015
0.1396	0.0142	0.0175	0.0003	0.0091	0.0021
0.0292	0.0387	0.0018	0.0352	0.0054	0.0331
0.0001	0.0018	0.0041	0.0654	0.3779	0.0000
0.0011	0.0102	0.0194	0.0125	0.0206	0.0007
0.0004	0.1563	0.0386	0.0035	0.0101	0.0121
0.0067	0.0151	0.0128	0.1368	0.0077	0.0440
0.0212	0.0091	2.9699	0.0024	0.0180	0.0173
0.0009	0.0027	0.0447	0.2297	0.0036	0.0031
0.0158	0.0024	0.0034	0.3030	0.0482	0.0012
0.0165	0.0071	0.0098	0.0406	0.0739	0.0004
0.0996	0.0060	0.0034	0.0010	0.0270	0.0006
0.0356	0.0025	0.0004	0.0015	0.0040	0.0029
0.0395	0.0020	0.0005	0.0012	0.0134	0.0079
0.0255	0.0052	0.0065	0.0058	0.0073	0.0089
0.0504	0.0066	0.0009	0.0203	0.0070	0.0669
0.0068	0.0307	0.3547	0.1889	0.0643	0.1996
0.0042	0.0539	0.0254	0.0285	0.0037	0.0112
0.1624	0.0038	0.0088	0.0016	0.0100	0.0033
0.0076	0.0025	0.0003	0.0209	0.0037	0.0071
0.0047	0.0560	0.0022	0.1074	0.0020	0.2602
0.0053	0.0768	0.0002	1.7149	0.0135	0.1303
0.0014	0.0608	0.0040	0.0487	0.0046	0.0033
0.0149	0.0527	0.0013	0.0026	0.0111	0.0012
0.0374	0.0142	0.0019	0.0689	0.0028	0.0021
0.0156	0.0162	0.0226	0.0127	0.0168	0.0077
0.0023	0.0104	0.0010	0.0229	0.0339	0.0282
0.0049	0.0856	0.1049	0.0063	0.0003	0.0057
0.0179	0.0056	0.0144	0.0038	0.0039	0.0003
0.0016	0.0728	0.0110	0.0973	0.0028	0.0017
0.0457	0.0310	0.0588	0.0240	0.0177	0.0453
0.0006	0.0201	0.2738	0.0953	0.0039	0.0276

Attachment 3: Phosmet Acute Dietary Exposure Analysis: Residue Distribution Files.

0.0022	0.0006	0.2165	0.0508	0.1781	0.2011
0.0105	0.0470	0.0069	0.0187	0.0299	0.0357
0.0561	0.0080	0.0226	0.0116	0.0053	0.0613
0.0288	0.0326	0.4953	0.0305	0.0194	0.0040
0.0209	0.0075	0.0444	0.0246	0.0050	0.0107
0.0003	0.0009	0.0322	0.0972	0.0125	0.0044
0.1604	0.0046	0.0358	0.0105	0.0626	0.0283
0.0153	0.1145	0.0019	0.1734	0.0541	0.0088
0.0123	0.0011	0.0249	0.0752	0.0119	0.0140
0.0106	0.0043	0.0020	0.0649	0.0042	0.0043
0.0073	0.0187	0.0012	0.0008	0.0081	0.0946
0.0786	1.1990	0.0198	0.0159	0.0016	0.0046
0.0149	0.0008	1.3916	0.0200	0.0044	0.0002
0.0345	0.0103	0.0015	0.1010	0.1942	0.0012
0.0030	0.0059	0.0148	0.0750	0.0051	0.0845
0.0186	0.0051	0.0139	0.0155	0.0037	0.0265
0.0535	0.0018	0.0255	0.0095	0.2964	0.0003
0.0661	0.0263	0.0043	0.0056	0.0329	0.0047
0.0014	0.0008	0.0068	0.0007	0.0315	0.1228
0.0199	0.0232	0.0548	0.6807	0.0142	0.0009
0.0517	0.0044	0.0027	0.0006	0.1685	0.0009
0.0013	0.0004	0.0015	0.0038	0.0057	0.0319
0.0005	0.0094	0.0030	0.0819	0.0060	0.0038
0.0074	0.0002	0.0000	0.0369	0.2105	0.0992
0.0466	0.0005	0.0050	0.0499	0.0001	0.1631
0.0010	0.0035	0.0008	0.0024	0.0042	0.0067
0.0034	0.0213	0.0098	0.0001	0.0181	0.0022
0.0009	0.0012	0.0361	0.0034	0.0014	0.0409
0.0002	0.0084	0.0108	0.0791	0.1293	0.0085
0.0027	0.0712	0.0070	0.0352	0.0053	0.0395
0.0029	0.0026	0.0288	0.0208	0.3486	0.0128
0.0015	0.0267	0.0025	0.0010	0.0016	0.0012
0.0082	0.7198	0.0183	0.0012	0.0475	0.0210
0.0098	0.0132	0.0274	0.0073	0.0011	0.4441
0.0028	0.0094	0.0077	0.0020	0.1521	0.0856
0.0042	0.0097	0.0022	0.0036	0.3882	0.0286
0.0062	0.0238	0.0127	0.0040	0.0294	0.0072
0.0045	0.0431	0.0011	0.0177	0.0006	0.0223
0.0314	0.2896	0.0189	0.0009	0.0014	0.0005
0.0108	0.0007	0.0533	0.0010	0.0307	0.0899
0.0813	0.0100	0.0066	0.1586	0.0724	0.0020
0.0043	0.0056	0.0105	0.0710	0.0013	0.0118
0.0029	0.1132	0.2426	0.0010	0.0049	0.0041
0.0076	0.0822	0.0583	0.0005	0.0203	0.0380
0.0026	0.0572	0.0872	0.0411	0.0236	0.0120
0.0018	0.0169	0.0063	0.0013	0.0021	0.0169
0.0204	0.0007	0.0214	0.0253	0.0025	0.0104
0.0222	0.0892	0.0220	0.0527	0.0016	0.0090
0.0033	0.0049	0.4143	0.0157	0.0153	0.0269
0.0138	0.2057	0.0037	0.0026	0.0032	0.0029
0.0055	0.0945	0.0489	0.0024	0.0038	0.0017
0.0136	0.0123	0.0384	0.0018	0.0013	0.0238
0.0218	0.0050	0.1531	0.0124	0.0021	0.0019
0.1671	0.0243	0.0035	0.0019	0.0009	0.0122
0.0577	0.0133	0.0018	0.0114	0.0110	0.0206
0.3296	0.0301	0.0005	0.0064	0.0802	0.0011
0.5930	0.0524	0.0027	0.2768	0.0058	0.0059
0.0841	0.4969	0.0026	0.0493	0.0051	0.0065
0.0215	0.0005	0.0027	0.1077	0.0009	0.0353
0.0159	0.2236	0.0080	0.0084	0.0019	0.0029
0.0031	0.0052	0.0043	0.0026	0.0094	0.0079
0.0014	0.0023	1.1081	0.0962	0.0217	0.0291
0.0064	0.1110	0.0121	0.0022	0.0584	0.0608
0.0009	0.0126	0.0371	0.1814	0.0003	0.0017
0.0272	0.0190	0.0629	0.0004	0.0905	0.0023
0.0005	0.0117	0.2518	0.0334	0.0015	0.0518
0.0025	0.0007	0.0032	0.3333	0.3668	0.0226
0.0621	0.0021	0.0153	0.0025	0.0033	0.0083
0.0050	0.0108	0.0054	0.0035	0.0007	0.0100
0.0799	0.0048	0.0193	0.1099	0.0130	0.0003
0.0880	0.0087	0.0125	0.0202	0.0461	0.0092

Attachment 3: Phosmet Acute Dietary Exposure Analysis: Residue Distribution Files.

0.0023	0.0660	0.0040	0.0001	0.0013	0.0003
0.0313	0.0093	0.0164	0.0103	0.0063	0.0006
0.0048	0.0006	0.0070	0.0447	0.0008	0.0091
0.0024	0.3153	0.0685	0.0179	0.0074	0.0031
0.0243	0.0083	0.0002	0.0338	0.0054	0.0089
0.1390	0.1425	0.0150	0.0047	0.0132	0.0007
0.0219	0.0085	0.0573	0.0024	0.0167	0.0008
0.0033	0.1246	0.0048	0.0020	0.0067	0.0039
0.0062	0.0133	0.0050	0.0021	0.0161	0.0064
0.0456	0.0136	0.0088	0.0046	0.0173	0.0010
0.0098	0.1357	0.0061	0.0055	0.0030	0.0181
0.0007	0.0229	0.1113	0.0165	0.0171	0.0031
0.2207	0.0092	0.0014	0.0145	0.0922	0.0060
0.0027	0.0096	0.0250	0.0559	0.0172	0.0636
0.0040	0.0055	0.9422	0.0080	0.0096	0.0323
0.0017	0.0005	0.0302	0.0007	0.0016	0.0071
0.0224	0.0075	0.0014	0.0111	0.6017	0.0041
0.1273	0.0666	0.0045	0.0727	0.0002	0.0828
0.0136	0.0006	0.0003	0.1028	0.4650	0.1062
0.0158	0.0133	0.0017	0.0073	0.1480	0.0004
0.0082	0.0483	0.0018	0.0436	0.0015	0.0423
0.0344	0.0011	0.0431	0.0110	0.0248	0.0053
0.0138	0.0009	0.0109	0.0099	0.2298	0.0057
0.1344	0.0566	0.0596	0.0030	0.0066	0.0102
0.0036	0.2588	0.0281	0.0196	0.0326	0.0034
2.2529	0.0240	0.0117	0.0389	0.5716	0.0231
0.0068	0.0190	0.0078	0.0377	0.0469	0.0145
0.0441	0.0331	0.0004	0.1204	0.0033	0.0023
0.0002	0.0271	0.0052	0.0679	0.0146	0.0020
0.1155	0.2178	0.0028	0.0011	0.0464	0.0162
0.0264	0.0113	0.0779	0.1176	0.0077	0.0129
0.0019	0.0036	0.5130	0.0150	0.0391	0.0031
0.2825	0.0114	0.0075	0.0002	0.0028	0.0347
0.0212	0.0234	0.0699	0.0101	0.0427	0.0262
0.0259	0.0185	0.0034	0.0076	0.0012	0.1901
0.8001	0.0142	0.0005	0.0513	0.0069	0.0415
0.0086	0.0047	0.0059	0.0004	0.0058	
0.0277	0.0401	0.0175	0.0029	0.0766	
0.0004					

Phosmet: Apple Residues Partially Blended [PDP Monitoring Distribution]

½ Wtd. LOD = 0.0075

TOTALZ=1087

545.0.0075	0.0170	0.0260	0.0400	0.1100
0.0100	0.0170	0.0260	0.0400	0.1100
0.0100	0.0170	0.0260	0.0400	0.1200
0.0100	0.0170	0.0300	0.0410	0.1200
0.0100	0.0170	0.0300	0.0410	0.1200
0.0100	0.0170	0.0310	0.0500	0.1200
0.0100	0.0170	0.0330	0.0500	0.1500
0.0100	0.0170	0.0350	0.0500	0.1500
0.0100	0.0170	0.0350	0.0550	0.1600
0.0100	0.0170	0.0360	0.0660	0.1700
0.0100	0.0170	0.0370	0.0660	0.1700
0.0100	0.0170	0.0380	0.0680	0.1700
0.0100	0.0170	0.0400	0.0730	0.2000
0.0100	0.0170	0.0400	0.0800	0.2300
0.0100	0.0170	0.0400	0.0960	0.2300
0.0100	0.0170	0.0400	0.0990	0.5300
0.0100	0.0200	0.0400	0.0990	5.3430
0.0150	0.0210	0.0400	0.1000	
0.0150	0.0260		0.1100	

Phosmet, Apricot Non-Blended [from PDP peach monitoring]

½ Wtd. LOD = 0.0083

Attachment 3: Phosmet Acute Dietary Exposure Analysis: Residue Distribution Files.

TOTALZ=3025

177.0.0083	0.1642	0.5215	0.0369	0.0214	0.0063
0.0435	0.0051	0.0143	0.0103	0.0208	0.0226
0.0414	0.0832	0.4411	0.4085	0.1914	0.0836
0.0475	2.7990	0.7055	0.0070	0.0108	0.0169
0.9471	0.0006	0.1034	0.6868	0.0295	0.0008
0.0204	0.2533	0.0581	0.9069	0.0110	0.0049
0.0181	0.4326	0.0694	0.1207	0.0060	0.1348
0.1238	0.0765	0.0517	0.0028	0.0400	0.0819
0.0030	0.0021	0.0054	0.0044	0.0135	0.0064
0.0150	0.2142	0.0122	0.0035	0.0327	0.0312
0.3696	0.3072	0.0577	0.0171	0.0082	0.1669
0.1192	0.1002	0.1146	0.0601	0.0496	0.0856
0.0727	0.0121	0.0379	0.5645	0.1008	0.0621
0.0359	0.0138	8.9607	0.0848	0.0009	0.0009
0.0094	0.0311	0.1330	0.0046	0.0116	0.4790
0.2009	0.0038	0.0101	0.0619	0.0084	0.0454
0.3638	0.0541	0.0290	0.3204	0.0525	0.0363
0.1873	0.0420	0.0100	5.1643	0.0114	0.0315
0.0272	0.1150	0.0011	0.1448	0.0564	0.0217
0.3562	0.0054	0.0016	0.0077	0.1108	0.2341
0.0512	0.0302	0.0191	0.2053	0.0178	0.0440
0.0337	0.4669	0.0026	0.0376	0.0252	0.1024
0.0002	0.0447	1.0624	0.0681	0.0256	0.0087
1.0274	0.0268	0.0754	0.0187	0.0241	0.0551
0.1478	0.0080	0.0261	0.0111	0.0432	0.1591
0.0168	0.0072	0.0008	0.2901	0.1084	0.1969
0.0410	0.0209	0.0064	0.0713	0.0979	0.0041
0.4168	0.0177	0.0006	0.2840	0.0133	0.0589
0.0868	0.0074	0.0117	0.0067	0.5888	0.1537
0.0004	0.0059	0.0039	0.0018	0.0545	0.0038
0.0031	0.0155	0.0057	0.0265	0.0176	0.0013
0.0011	0.0196	0.0671	0.0351	0.5317	0.0218
0.0196	0.0911	0.0029	0.1833	0.0453	0.1385
0.0629	0.1604	0.3129	0.1182	0.0066	0.0030
0.0025	0.0112	0.0426	0.0282	0.0012	0.0101
0.0467	0.0075	0.0325	0.0190	0.0160	0.0026
0.0488	0.1666	0.1749	0.0212	0.0007	0.0005
0.2970	0.2289	0.8194	0.0003	0.0119	0.0079
0.1059	0.1811	0.0052	0.1130	0.5545	0.0084
0.1175	0.1567	0.0882	0.0173	0.0056	0.0043
0.0756	0.0422	0.0254	0.0025	0.0105	0.0242
0.1498	0.0480	0.0199	0.7416	0.0239	0.0289
0.0201	0.0309	1.9104	0.0571	0.0080	0.0081
0.0124	0.2551	0.1256	0.1514	0.0943	0.0125
0.4851	0.0164	0.0109	0.3516	0.0045	0.0184
0.0223	0.2168	0.0776	0.0655	0.0061	0.0132
0.0138	0.0921	0.1095	0.0382	0.0984	0.0931
0.0157	0.0595	0.0032	0.0014	0.0000	0.0320
0.0042	0.3808	0.0183	0.0130	0.0022	0.2421
0.0443	0.0024	0.0095	0.1265	0.0357	0.0126
0.1110	0.2760	0.0697	0.0088	0.1307	0.0087
0.0462	0.0042	0.0903	0.0343	0.0514	0.0224
0.0066	0.3055	0.0231	0.0114	0.0090	0.0075
0.0146	0.4499	0.0140	2.2825	0.0034	0.0052
0.0530	0.0069	0.1770	0.0503	0.0012	0.0604
0.0047	0.0048	0.0037	0.0270	0.0019	0.0659
0.1359	0.0746	0.1219	0.0159	0.0085	0.0097
0.0019	0.0490	1.3376	1.1321	0.0233	0.0408
0.0033	0.4030	0.0158	0.0612	0.0262	0.0162
0.0070	0.0823	0.0248	0.0299	0.1993	0.0404
0.0044	0.0275	0.0092	0.0228	0.5965	0.0646
0.0386	0.0017	0.2242	0.0533	0.0331	0.4991
0.0048	0.0879	0.0349	0.0106	0.0098	0.1716
0.0243	0.0340	0.2710	0.1432	0.0210	0.9869
0.1413	0.0049	0.0462	0.2202	0.7783	1.7791
0.0093	1.2277	0.0010	0.0801	0.3887	0.2507
0.0193	0.0334	0.1047	0.0119	0.0096	0.0639
0.2086	0.0059	0.1948	0.0398	0.0036	0.0471

Attachment 3: Phosmet Acute Dietary Exposure Analysis: Residue Distribution Files.

0.0091	0.0154	0.0128	0.0077	0.0278	0.0234
0.0040	0.0068	3.3319	0.2867	0.0642	0.0864
0.0188	0.3310	0.0359	0.0065	0.1739	0.1808
0.0027	0.0373	0.1103	0.5419	0.0009	0.0050
0.0808	0.0562	0.1871	0.0013	0.2696	0.0067
0.0015	0.0346	0.7532	0.0992	0.0044	0.1541
0.0072	0.0022	0.0093	0.9979	1.0986	0.0670
0.1848	0.0062	0.0454	0.0075	0.0098	0.0246
0.0149	0.0321	0.0159	0.0103	0.0021	0.0296
0.2380	0.0142	0.0573	0.3279	0.0386	0.0008
0.2622	0.0258	0.0371	0.0599	0.1372	0.0272
0.0018	0.6473	0.1511	0.5321	0.6011	0.0067
0.1399	0.0203	0.0554	0.0887	0.1062	0.0928
0.0235	0.0669	0.0343	0.0155	0.1824	0.0142
0.0968	1.4851	0.0904	0.0574	0.0116	0.0072
0.0221	0.1320	0.0729	0.0146	0.0315	0.0721
0.0028	0.0957	0.2899	0.0369	0.0131	0.4148
0.0136	0.1065	0.0310	0.1863	0.0840	0.0650
0.3417	0.0056	0.5181	0.1609	0.0259	0.0097
0.0032	0.0737	0.2241	0.0351	0.0415	0.0182
0.0128	0.0058	0.1932	0.0125	0.0126	0.1356
0.0553	0.0035	0.0023	0.0241	0.2819	0.0290
3.6061	0.0588	0.0471	0.0046	0.0135	0.0020
0.0023	4.1875	0.0593	0.0130	0.0005	0.6599
0.0304	0.0045	0.3013	0.5804	0.0034	0.0081
0.0175	0.0439	0.2233	0.0152	0.2518	0.0119
0.0151	0.0413	0.0458	0.0108	0.0787	0.0049
0.0053	0.0755	0.0281	0.8870	0.0009	0.0663
0.0779	0.0128	0.0165	0.0976	0.0137	0.3799
0.0023	0.0202	0.0022	0.0936	0.3663	0.0402
0.0687	0.1629	2.0432	0.0421	0.0026	0.0467
0.0129	0.0078	0.0016	0.5034	0.0025	0.0241
0.0013	0.0043	0.0113	0.0167	0.0947	0.1022
0.0278	0.0087	0.2440	0.0177	0.0112	0.0408
0.0004	0.0000	0.1096	0.6294	0.2958	0.4011
0.0015	0.0149	0.1484	0.0002	0.4870	0.0107
0.0103	0.0024	0.0069	0.0123	0.0199	6.7907
0.0632	0.0289	0.0004	0.0537	0.0065	0.0201
0.0037	0.1072	0.0101	0.0041	0.1215	0.1311
0.0249	0.0320	0.2357	0.3858	0.0253	0.0007
0.2120	0.0208	0.1045	0.0156	0.1175	0.3445
0.0077	0.0855	0.0616	1.0439	0.0380	0.0783
0.0793	0.0073	0.0030	0.0048	0.0035	0.0054
2.1610	0.0543	0.0036	0.1412	0.0623	0.8452
0.0390	0.0813	0.0214	0.0032	1.3310	0.0629
0.0279	0.0226	0.0058	0.4541	0.2551	0.0769
0.0286	0.0064	0.0108	1.1630	0.0849	2.4029
0.0706	0.0376	0.0117	0.0873	0.0213	0.0255
0.1280	0.0031	0.0525	0.0018	0.0661	0.0822
0.8666	0.0561	0.0027	0.0040	0.0016	0.0012
0.0020	0.1585	0.0029	0.0912	0.2678	0.1965
0.0295	0.0194	0.4736	0.2157	0.0060	0.0276
0.0165	0.0312	0.2115	0.0038	0.0350	0.0019
0.3377	0.7255	0.0030	0.0144	0.0122	0.9438
0.2449	0.1734	0.0013	0.0603	0.1130	0.0245
0.1701	0.2597	0.1223	0.0700	0.0355	0.4254
0.0502	0.0187	0.0040	0.0063	0.0502	0.0252
0.0021	0.0635	0.0750	0.0073	0.0307	0.3717
0.2658	0.0653	0.1569	0.0046	0.0266	0.0395
0.0144	1.2413	0.0466	0.0453	0.0797	0.0403
0.6147	0.0109	0.0076	0.0095	0.0085	0.4049
0.2816	0.1455	0.0070	0.0112	0.0051	0.0678
0.0365	0.1142	0.0054	0.0039	0.0707	0.0271
0.0147	0.4571	0.0366	0.0062	0.0057	0.0285
0.0720	0.0104	0.0056	0.0028	0.0362	0.0164
0.0394	0.0052	0.0339	0.0324	0.0612	0.0015
0.0892	0.0014	0.0189	0.2390	0.0033	0.0223
0.1558	0.0081	0.8284	0.0171	0.0175	0.1982
1.4898	0.0078	0.1465	0.0151	0.0192	0.0017
0.0016	0.0080	0.3214	0.0025	0.1049	0.0394
0.6685	0.0235	0.0248	0.0055	0.0086	0.1436

Attachment 3: Phosmet Acute Dietary Exposure Analysis: Residue Distribution Files.

0.0033	0.3320	0.0303	0.0034	0.4418	0.0028
0.0027	0.0042	0.1330	0.3507	0.0043	0.0536
0.1684	0.0741	0.0529	0.0445	0.0737	0.0091
0.7743	2.8315	0.1005	0.0005	0.6871	0.0179
0.0711	0.0898	0.0139	0.0300	0.0196	0.1893
0.0563	0.0042	0.0070	0.0224	0.0969	0.0959
0.0983	0.0133	0.0059	0.1527	1.7146	0.0210
0.0804	0.0008	0.0061	0.0012	0.1395	0.0121
0.6511	0.0050	0.0135	0.0084	0.0096	0.2468
0.0335	0.0053	0.0162	0.0037	0.0434	0.3166
0.0105	0.1281	0.0489	0.0185	0.1380	0.0011
0.0338	0.0323	0.0428	0.0022	0.0229	0.1257
0.0694	0.1774	0.1662	0.0218	0.1163	0.0157
0.0549	0.0833	0.0237	0.0161	0.0083	0.0169
0.0421	0.0345	0.0020	0.0391	0.1269	0.0301
0.0139	0.0231	0.0329	0.0496	0.0036	0.0099
0.1191	0.0011	0.2166	0.0198	0.0205	0.0685
0.0119	0.0153	0.3065	0.0477	0.0172	0.0430
0.0485	0.0083	0.0216	0.0513	0.2283	0.0068
0.0207	0.2319	0.1297	0.0088	0.0010	0.0058
0.2041	1.5382	0.0327	0.0507	0.0017	0.0480
0.0005	0.0221	0.0294	0.2749	0.0269	0.0382
0.0445	0.2083	0.0090	0.0510	0.0092	0.0092
0.1705	0.0100	0.0580	0.0284	0.0264	0.1030
0.0142	0.0014	0.1157	0.0047	0.0019	0.0778
0.0147	0.0175	0.1121	1.8054	0.0024	0.5679
0.0260	0.0517	0.3592	0.0007	0.0114	0.1233
0.0180	0.0003	0.2022	1.3940	0.0189	

Phosmet: Nectarine Partially Blended [From peach PDP Monitoring Data]

½ Wtd. LOD = 0.0083

TOTALZ=617

34,0.0083	0.0170	0.0500	0.0890	0.1600	0.3100
0.0090	0.0190	0.0500	0.0900	0.1600	0.3200
0.0100	0.0200	0.0500	0.0910	0.1600	0.3200
0.0100	0.0230	0.0500	0.0910	0.1700	0.3300
0.0100	0.0240	0.0500	0.0920	0.1700	0.3500
0.0100	0.0250	0.0500	0.0950	0.1700	0.3800
0.0100	0.0260	0.0500	0.0960	0.1800	0.3900
0.0100	0.0260	0.0500	0.0990	0.1800	0.4100
0.0100	0.0260	0.0570	0.1000	0.1800	0.4100
0.0100	0.0260	0.0570	0.1000	0.1800	0.4400
0.0100	0.0270	0.0570	0.1000	0.1800	0.4400
0.0100	0.0300	0.0580	0.1100	0.1900	0.4400
0.0130	0.0300	0.0590	0.1100	0.1900	0.4500
0.0150	0.0300	0.0620	0.1100	0.1900	0.4500
0.0160	0.0300	0.0650	0.1100	0.2000	0.5100
0.0160	0.0300	0.0650	0.1100	0.2000	0.5500
0.0160	0.0320	0.0660	0.1100	0.2100	0.6100
0.0170	0.0330	0.0670	0.1200	0.2100	0.6400
0.0170	0.0330	0.0670	0.1200	0.2100	0.6800
0.0170	0.0350	0.0670	0.1200	0.2200	0.7000
0.0170	0.0380	0.0680	0.1300	0.2200	0.7200
0.0170	0.0400	0.0680	0.1300	0.2200	0.7400
0.0170	0.0400	0.0710	0.1300	0.2300	0.7700
0.0170	0.0400	0.0720	0.1300	0.2300	0.8000
0.0170	0.0400	0.0750	0.1300	0.2400	0.8200
0.0170	0.0400	0.0770	0.1400	0.2400	0.8600
0.0170	0.0400	0.0780	0.1500	0.2700	0.9400
0.0170	0.0420	0.0800	0.1500	0.2700	1.0000
0.0170	0.0500	0.0840	0.1500	0.2900	1.1000
0.0170	0.0500	0.0850	0.1500	0.2900	1.7000
0.0170	0.0500	0.0870	0.1500	0.2900	
0.0170	0.0500	0.0880	0.1500	0.3000	
0.0170	0.0500	0.0880	0.1600	0.3000	

Phosmet: Peach Partially Blended [From PDP Monitoring Data]

Attachment 3: Phosmet Acute Dietary Exposure Analysis: Residue Distribution Files.

½ Wtd. LOD = 0.0083

TOTALZ=762

34,0.0083	0.0170	0.0500	0.0890	0.1600	0.3100
0.0090	0.0190	0.0500	0.0900	0.1600	0.3200
0.0100	0.0200	0.0500	0.0910	0.1600	0.3200
0.0100	0.0230	0.0500	0.0910	0.1700	0.3300
0.0100	0.0240	0.0500	0.0920	0.1700	0.3500
0.0100	0.0250	0.0500	0.0950	0.1700	0.3800
0.0100	0.0260	0.0500	0.0960	0.1800	0.3900
0.0100	0.0260	0.0500	0.0990	0.1800	0.4100
0.0100	0.0260	0.0570	0.1000	0.1800	0.4100
0.0100	0.0260	0.0570	0.1000	0.1800	0.4400
0.0100	0.0270	0.0570	0.1000	0.1800	0.4400
0.0100	0.0300	0.0580	0.1100	0.1900	0.4400
0.0130	0.0300	0.0590	0.1100	0.1900	0.4500
0.0150	0.0300	0.0620	0.1100	0.1900	0.4500
0.0160	0.0300	0.0650	0.1100	0.2000	0.5100
0.0160	0.0300	0.0650	0.1100	0.2000	0.5500
0.0160	0.0320	0.0660	0.1100	0.2100	0.6100
0.0170	0.0330	0.0670	0.1200	0.2100	0.6400
0.0170	0.0330	0.0670	0.1200	0.2100	0.6800
0.0170	0.0350	0.0670	0.1200	0.2200	0.7000
0.0170	0.0380	0.0680	0.1300	0.2200	0.7200
0.0170	0.0400	0.0680	0.1300	0.2200	0.7400
0.0170	0.0400	0.0710	0.1300	0.2300	0.7700
0.0170	0.0400	0.0720	0.1300	0.2300	0.8000
0.0170	0.0400	0.0750	0.1300	0.2400	0.8200
0.0170	0.0400	0.0770	0.1400	0.2400	0.8600
0.0170	0.0400	0.0780	0.1500	0.2700	0.9400
0.0170	0.0420	0.0800	0.1500	0.2700	1.0000
0.0170	0.0500	0.0840	0.1500	0.2900	1.1000
0.0170	0.0500	0.0850	0.1500	0.2900	1.7000
0.0170	0.0500	0.0870	0.1500	0.2900	
0.0170	0.0500	0.0880	0.1500	0.3000	
0.0170	0.0500	0.0880	0.1600	0.3000	

Phosmet: Plum Partially Blended [From peach PDP Monitoring Data]

½ Wtd. LOD = 0.0083

TOTALZ=3032

34,0.0083	0.0170	0.0350	0.0590	0.0950	0.1500
0.0090	0.0170	0.0380	0.0620	0.0960	0.1600
0.0100	0.0170	0.0400	0.0650	0.0990	0.1600
0.0100	0.0170	0.0400	0.0650	0.1000	0.1600
0.0100	0.0170	0.0400	0.0660	0.1000	0.1600
0.0100	0.0170	0.0400	0.0670	0.1000	0.1700
0.0100	0.0170	0.0400	0.0670	0.1100	0.1700
0.0100	0.0170	0.0400	0.0670	0.1100	0.1700
0.0100	0.0190	0.0420	0.0680	0.1100	0.1800
0.0100	0.0200	0.0500	0.0680	0.1100	0.1800
0.0100	0.0230	0.0500	0.0710	0.1100	0.1800
0.0100	0.0240	0.0500	0.0720	0.1100	0.1800
0.0130	0.0250	0.0500	0.0750	0.1200	0.1800
0.0150	0.0260	0.0500	0.0770	0.1200	0.1900
0.0160	0.0260	0.0500	0.0780	0.1200	0.1900
0.0160	0.0260	0.0500	0.0800	0.1300	0.1900
0.0160	0.0260	0.0500	0.0840	0.1300	0.2000
0.0170	0.0270	0.0500	0.0850	0.1300	0.2000
0.0170	0.0300	0.0500	0.0870	0.1300	0.2100
0.0170	0.0300	0.0500	0.0880	0.1300	0.2100
0.0170	0.0300	0.0500	0.0880	0.1400	0.2100
0.0170	0.0300	0.0500	0.0890	0.1500	0.2200
0.0170	0.0300	0.0570	0.0900	0.1500	0.2200
0.0170	0.0320	0.0570	0.0910	0.1500	0.2200
0.0170	0.0330	0.0570	0.0910	0.1500	0.2300
0.0170	0.0330	0.0580	0.0920	0.1500	0.2300

Attachment 3: Phosmet Acute Dietary Exposure Analysis: Residue Distribution Files.

0.2400	0.3000	0.3800	0.4500	0.7000	0.8600
0.2400	0.3000	0.3900	0.4500	0.7200	0.9400
0.2700	0.3100	0.4100	0.5100	0.7400	1.0000
0.2700	0.3200	0.4100	0.5500	0.7700	1.1000
0.2900	0.3200	0.4400	0.6100	0.8000	1.7000
0.2900	0.3300	0.4400	0.6400	0.8200	
0.2900	0.3500	0.4400	0.6800		

Phosmet: Apricot Partially Blended [From peach PDP Monitoring Data]

½ Wtd. LOD = 0.0083

TOTALZ=587

34.00083	0.0170	0.0400	0.0670	0.1100	0.1800	0.3300
0.0090	0.0170	0.0400	0.0670	0.1100	0.1800	0.3500
0.0100	0.0170	0.0400	0.0680	0.1100	0.1800	0.3800
0.0100	0.0170	0.0400	0.0680	0.1100	0.1900	0.3900
0.0100	0.0170	0.0420	0.0710	0.1200	0.1900	0.4100
0.0100	0.0170	0.0500	0.0720	0.1200	0.1900	0.4100
0.0100	0.0190	0.0500	0.0750	0.1200	0.2000	0.4400
0.0100	0.0200	0.0500	0.0770	0.1300	0.2000	0.4400
0.0100	0.0230	0.0500	0.0780	0.1300	0.2100	0.4400
0.0100	0.0240	0.0500	0.0800	0.1300	0.2100	0.4500
0.0100	0.0250	0.0500	0.0840	0.1300	0.2100	0.4500
0.0100	0.0260	0.0500	0.0850	0.1300	0.2200	0.5100
0.0130	0.0260	0.0500	0.0870	0.1400	0.2200	0.5500
0.0150	0.0260	0.0500	0.0880	0.1500	0.2200	0.6100
0.0160	0.0260	0.0500	0.0880	0.1500	0.2300	0.6400
0.0160	0.0270	0.0500	0.0890	0.1500	0.2300	0.6800
0.0160	0.0300	0.0500	0.0900	0.1500	0.2400	0.7000
0.0170	0.0300	0.0500	0.0910	0.1500	0.2400	0.7200
0.0170	0.0300	0.0570	0.0910	0.1500	0.2700	0.7400
0.0170	0.0300	0.0570	0.0920	0.1600	0.2700	0.7700
0.0170	0.0300	0.0570	0.0950	0.1600	0.2900	0.8000
0.0170	0.0320	0.0580	0.0960	0.1600	0.2900	0.8200
0.0170	0.0330	0.0590	0.0990	0.1600	0.2900	0.8600
0.0170	0.0330	0.0620	0.1000	0.1700	0.3000	0.9400
0.0170	0.0350	0.0650	0.1000	0.1700	0.3000	1.0000
0.0170	0.0380	0.0650	0.1000	0.1700	0.3100	1.1000
0.0170	0.0400	0.0660	0.1100	0.1800	0.3200	1.7000
0.0170	0.0400	0.0670	0.1100	0.1800	0.3200	

Phosmet: Kiwi Residue Data translated from Grape [PDP monitoring data]

½ Wtd. LOD = 0.0073

TOTALZ=228

69.00073	0.0100	0.0170	0.0830	0.3200	0.4200
0.0100	0.0100	0.0240	0.1300	0.3800	0.5000
0.0100	0.0100	0.0260	0.1600	0.4000	
0.0100	0.0100	0.0620	0.1900		

Phosmet: Grape Partially Blended [PDP Monitoring data]

½ Wtd. LOD = 0.0073

TOTALZ=1682

69.00073	0.0100	0.0170	0.0830	0.1900	0.4000
0.0100	0.0100	0.0240	0.1300	0.3200	0.4200
0.0100	0.0100	0.0260	0.1600	0.3800	0.5000
0.0100	0.0100	0.0620	0.1900		

Phosmet: Sweet Potato Partially Blended [PDP Monitoring Data]

½ Wtd. LOD = 0.0064

TOTALZ=1096

Attachment 3: Phosmet Acute Dietary Exposure Analysis: Residue Distribution Files.

14,0064	0.0300	0.0600	0.1000	0.1200	0.2200
0.0100	0.0310	0.0620	0.1000	0.1300	0.2300
0.0100	0.0360	0.0730	0.1100	0.1300	0.2400
0.0100	0.0380	0.0750	0.1100	0.1400	0.2600
0.0100	0.0400	0.0810	0.1100	0.1400	0.3000
0.0220	0.0400	0.0830	0.1100	0.1500	0.3200
0.0240	0.0400	0.0830	0.1100	0.1600	0.3500
0.0250	0.0400	0.0860	0.1100	0.1600	0.3600
0.0250	0.0400	0.0880	0.1200	0.1900	0.4100
0.0250	0.0400	0.0920	0.1200	0.2100	0.4200
0.0260	0.0550	0.0970	0.1200	0.2100	0.4200
0.0270	0.0550	0.0990			

Phosmet: Pear Composite Detects for Partially Blended [PDP Monitoring, 1997/1998]

½ Wtd. LOD = 0.0064

TOTALZ=503

0.0080	0.0190	0.0400	0.0760	0.1400	0.3000
0.0080	0.0200	0.0400	0.0770	0.1400	0.3200
0.0080	0.0200	0.0400	0.0780	0.1400	0.3200
0.0080	0.0200	0.0400	0.0780	0.1500	0.3200
0.0080	0.0200	0.0400	0.0800	0.1500	0.3200
0.0080	0.0200	0.0400	0.0820	0.1500	0.3300
0.0080	0.0200	0.0400	0.0860	0.1500	0.3400
0.0080	0.0210	0.0400	0.0860	0.1600	0.3400
0.0080	0.0210	0.0400	0.0860	0.1600	0.3500
0.0080	0.0210	0.0400	0.0880	0.1700	0.3500
0.0080	0.0210	0.0400	0.0900	0.1800	0.3600
0.0080	0.0220	0.0400	0.0900	0.1900	0.3700
0.0090	0.0230	0.0400	0.0900	0.1900	0.3800
0.0090	0.0240	0.0400	0.0900	0.1900	0.4000
0.0090	0.0240	0.0400	0.0920	0.2000	0.4000
0.0090	0.0250	0.0400	0.0920	0.2100	0.4200
0.0090	0.0250	0.0410	0.0930	0.2100	0.4300
0.0090	0.0250	0.0410	0.0960	0.2200	0.4300
0.0090	0.0250	0.0410	0.1000	0.2200	0.4300
0.0100	0.0250	0.0430	0.1000	0.2300	0.4900
0.0100	0.0250	0.0430	0.1000	0.2300	0.5200
0.0100	0.0250	0.0430	0.1000	0.2300	0.5300
0.0100	0.0250	0.0440	0.1100	0.2400	0.5300
0.0100	0.0250	0.0450	0.1100	0.2400	0.5400
0.0100	0.0250	0.0470	0.1100	0.2500	0.5500
0.0100	0.0250	0.0480	0.1100	0.2500	0.5500
0.0100	0.0250	0.0480	0.1100	0.2600	0.5600
0.0100	0.0250	0.0530	0.1200	0.2600	0.6000
0.0100	0.0250	0.0550	0.1200	0.2700	0.6100
0.0100	0.0250	0.0570	0.1200	0.2700	0.6300
0.0100	0.0250	0.0590	0.1200	0.2800	0.6400
0.0100	0.0300	0.0590	0.1300	0.2800	0.6600
0.0100	0.0300	0.0600	0.1300	0.2800	0.7200
0.0170	0.0300	0.0600	0.1300	0.2800	0.7200
0.0170	0.0320	0.0630	0.1300	0.2800	0.7800
0.0170	0.0320	0.0640	0.1400	0.2900	0.8500
0.0170	0.0330	0.0640	0.1400	0.2900	0.9300
0.0170	0.0330	0.0650	0.1400	0.2900	0.9600
0.0170	0.0330	0.0650	0.1400	0.2900	0.9900
0.0170	0.0330	0.0690	0.1400	0.2900	1.2000
0.0180	0.0340	0.0700	0.1400	0.3000	1.3000
0.0180	0.0370	0.0710	0.1400	0.3000	1.4000
0.0190	0.0380	0.0740	0.1400	0.3000	1.6000
0.0190	0.0390	0.0760	0.1400	0.3000	1.8000

Phosmet: Pear Single Unit Residues [PDP Monitoring, 1998]

TOTALZ=102

0.0080	0.0090	0.0090	0.0090	0.0090	0.0090
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Attachment 3: Phosmet Acute Dietary Exposure Analysis: Residue Distribution Files.

0.0100	0.0200	0.0540	0.1100	0.1600	0.3100
0.0100	0.0200	0.0560	0.1100	0.1800	0.3600
0.0100	0.0200	0.0580	0.1200	0.1800	0.4600
0.0100	0.0240	0.0610	0.1200	0.1800	0.5000
0.0100	0.0290	0.0730	0.1300	0.2500	0.5100
0.0100	0.0300	0.0760	0.1300	0.2500	0.5200
0.0100	0.0390	0.0780	0.1300	0.2500	0.5600
0.0100	0.0390	0.0790	0.1300	0.2500	0.5900
0.0100	0.0400	0.0800	0.1400	0.2600	0.6100
0.0100	0.0400	0.0870	0.1400	0.2600	0.6300
0.0170	0.0410	0.0880	0.1500	0.2900	0.6500
0.0170	0.0430	0.0890	0.1500	0.3000	0.7100
0.0190	0.0440	0.0930	0.1600	0.3000	0.7400
0.0190	0.0440	0.0990	0.1600	0.3100	0.9700
0.0200					

Phosmet, Peach Non-Blended [decomposite from PDP monitoring]

½ Wtd. LOD = 0.0083

TOTALZ=3929

173,0.0083	0.0443	0.0155	0.1146	0.0092	0.7416	0.0256
0.0435	0.1110	0.0196	0.0379	0.2242	0.0571	0.0241
0.0414	0.0462	0.0911	8.9607	0.0349	0.1514	0.0432
0.0475	0.0066	0.1604	0.1330	0.2710	0.3516	0.1084
0.9471	0.0146	0.0112	0.0101	0.0462	0.0655	0.0979
0.0204	0.0530	0.0075	0.0290	0.0010	0.0382	0.0133
0.0181	0.0047	0.1666	0.0100	0.1047	0.0014	0.5888
0.1238	0.1359	0.2289	0.0011	0.1948	0.0130	0.0545
0.0030	0.0019	0.1811	0.0016	0.0369	0.1265	0.0176
0.0150	0.0033	0.1567	0.0191	0.0103	0.0088	0.5317
0.3696	0.0070	0.0422	0.0026	0.4085	0.0343	0.0453
0.1192	0.0044	0.0480	1.0624	0.0070	0.0114	0.0066
0.0727	0.0386	0.0309	0.0754	0.6868	2.2825	0.0012
0.0359	0.0048	0.2551	0.0261	0.9069	0.0503	0.0160
0.0094	0.0243	0.0164	0.0008	0.1207	0.0270	0.0007
0.2009	0.1413	0.2168	0.0064	0.0028	0.0159	0.0119
0.3638	0.0093	0.0921	0.0006	0.0044	1.1321	0.5545
0.1873	0.0193	0.0595	0.0117	0.0035	0.0612	0.0056
0.0272	0.2086	0.3808	0.0039	0.0171	0.0299	0.0105
0.3562	0.1642	0.0024	0.0057	0.0601	0.0228	0.0239
0.0512	0.0051	0.2760	0.0671	0.5645	0.0533	0.0080
0.0337	0.0832	0.0042	0.0029	0.0848	0.0106	0.0943
0.0002	2.7990	0.3055	0.3129	0.0046	0.1432	0.0045
1.0274	0.0006	0.4499	0.0426	0.0619	0.2202	0.0061
0.1478	0.2533	0.0069	0.0325	0.3204	0.0801	0.0984
0.0168	0.4326	0.0048	0.1749	5.1643	0.0119	0.0000
0.0410	0.0765	0.0746	0.8194	0.1448	0.0398	0.0022
0.4168	0.0021	0.0490	0.0052	0.0077	0.0214	0.0357
0.0868	0.2142	0.4030	0.0882	0.2053	0.0208	0.1307
0.0004	0.3072	0.0823	0.0254	0.0376	0.1914	0.0514
0.0031	0.1002	0.0275	0.0199	0.0681	0.0108	0.0090
0.0011	0.0121	0.0017	1.9104	0.0187	0.0295	0.0034
0.0196	0.0138	0.0879	0.1256	0.0111	0.0110	0.0012
0.0629	0.0311	0.0340	0.0109	0.2901	0.0060	0.0019
0.0025	0.0038	0.0049	0.0776	0.0713	0.0400	0.0085
0.0467	0.0541	1.2277	0.1095	0.2840	0.0135	0.0233
0.0488	0.0420	0.0334	0.0032	0.0067	0.0327	0.0262
0.2970	0.1150	0.0059	0.0183	0.0018	0.0082	0.1993
0.1059	0.0054	0.5215	0.0095	0.0265	0.0496	0.5965
0.1175	0.0302	0.0143	0.0697	0.0351	0.1008	0.0331
0.0756	0.4669	0.4411	0.0903	0.1833	0.0009	0.0098
0.1498	0.0447	0.7055	0.0231	0.1182	0.0116	0.0210
0.0201	0.0268	0.1034	0.0140	0.0282	0.0084	0.7783
0.0124	0.0080	0.0581	0.1770	0.0190	0.0525	0.3887
0.4851	0.0072	0.0694	0.0037	0.0212	0.0114	0.0096
0.0223	0.0209	0.0517	0.1219	0.0003	0.0564	0.0036
0.0138	0.0177	0.0054	1.3376	0.1130	0.1108	0.0063
0.0157	0.0074	0.0122	0.0158	0.0173	0.0178	0.0226
0.0042	0.0059	0.0577	0.0248	0.0025	0.0252	0.0836

Attachment 3: Phosmet Acute Dietary Exposure Analysis: Residue Distribution Files.

0.0169	0.0072	0.0022	0.0093	0.9979	1.0986	0.0670
0.0008	0.1848	0.0062	0.0454	0.0075	0.0098	0.0246
0.0049	0.0149	0.0321	0.0159	0.0103	0.0021	0.0296
0.1348	0.2380	0.0142	0.0573	0.3279	0.0386	0.0008
0.0819	0.2622	0.0258	0.0371	0.0599	0.1372	0.0272
0.0064	0.0018	0.6473	0.1511	0.5321	0.6011	0.0067
0.0312	0.1399	0.0203	0.0554	0.0887	0.1062	0.0928
0.1669	0.0235	0.0669	0.0343	0.0155	0.1824	0.0142
0.0856	0.0968	1.4851	0.0904	0.0574	0.0116	0.0072
0.0621	0.0221	0.1320	0.0729	0.0146	0.0315	0.0721
0.0009	0.0028	0.0957	0.2899	0.0369	0.0131	0.4148
0.4790	0.0136	0.1065	0.0310	0.1863	0.0840	0.0650
0.0454	0.3417	0.0056	0.5181	0.1609	0.0259	0.0097
0.0363	0.0032	0.0737	0.2241	0.0351	0.0415	0.0182
0.0315	0.0128	0.0058	0.1932	0.0125	0.0126	0.1356
0.0217	0.0553	0.0035	0.0023	0.0241	0.2819	0.0290
0.2341	3.6061	0.0588	0.0471	0.0046	0.0135	0.0020
0.0440	0.0023	4.1875	0.0593	0.0130	0.0005	0.6599
0.1024	0.0304	0.0045	0.3013	0.5804	0.0034	0.0081
0.0087	0.0175	0.0439	0.2233	0.0152	0.2518	0.0119
0.0551	0.0151	0.0413	0.0458	0.0108	0.0787	0.0049
0.1591	0.0053	0.0755	0.0281	0.8870	0.0009	0.0663
0.1969	0.0779	0.0128	0.0165	0.0976	0.0137	0.3799
0.0041	0.0023	0.0202	0.0022	0.0936	0.3663	0.0402
0.0589	0.0687	0.1629	2.0432	0.0421	0.0026	0.0467
0.1537	0.0129	0.0078	0.0016	0.5034	0.0025	0.0241
0.0038	0.0013	0.0043	0.0113	0.0167	0.0947	0.1022
0.0013	0.0278	0.0087	0.2440	0.0177	0.0112	0.0408
0.0218	0.0004	0.0000	0.1096	0.6294	0.2958	0.4011
0.1385	0.0015	0.0149	0.1484	0.0002	0.4870	0.0107
0.0030	0.0103	0.0024	0.0069	0.0123	0.0199	6.7907
0.0101	0.0632	0.0289	0.0004	0.0537	0.0065	0.0201
0.0026	0.0037	0.1072	0.0101	0.0041	0.1215	0.1311
0.0005	0.0249	0.0320	0.2357	0.3858	0.0253	0.0007
0.0079	0.2120	0.0208	0.1045	0.0156	0.1175	0.3445
0.0084	0.0077	0.0855	0.0616	1.0439	0.0380	0.0783
0.0043	0.0793	0.0073	0.0030	0.0048	0.0035	0.0054
0.0242	2.1610	0.0543	0.0036	0.1412	0.0623	0.8452
0.0289	0.0390	0.0813	0.0214	0.0032	1.3310	0.0629
0.0081	0.0279	0.0226	0.0058	0.4541	0.2551	0.0769
0.0125	0.0286	0.0064	0.0108	1.1630	0.0849	2.4029
0.0184	0.0706	0.0376	0.0117	0.0873	0.0213	0.0255
0.0132	0.1280	0.0031	0.0525	0.0018	0.0661	0.0822
0.0931	0.8666	0.0561	0.0027	0.0040	0.0016	0.0012
0.0320	0.0020	0.1585	0.0029	0.0912	0.2678	0.1965
0.2421	0.0295	0.0194	0.4736	0.2157	0.0060	0.0276
0.0126	0.0165	0.0312	0.2115	0.0038	0.0350	0.0019
0.0087	0.3377	0.7255	0.0030	0.0144	0.0122	0.9438
0.0224	0.2449	0.1734	0.0013	0.0603	0.1130	0.0245
0.0075	0.1701	0.2597	0.1223	0.0700	0.0355	0.4254
0.0052	0.0502	0.0187	0.0040	0.0063	0.0502	0.0252
0.0604	0.0021	0.0635	0.0750	0.0073	0.0307	0.3717
0.0659	0.2658	0.0653	0.1569	0.0046	0.0266	0.0395
0.0097	0.0144	1.2413	0.0466	0.0453	0.0797	0.0403
0.0408	0.6147	0.0109	0.0076	0.0095	0.0085	0.4049
0.0162	0.2816	0.1455	0.0070	0.0112	0.0051	0.0678
0.0404	0.0365	0.1142	0.0054	0.0039	0.0707	0.0271
0.0646	0.0147	0.4571	0.0366	0.0062	0.0057	0.0285
0.4991	0.0720	0.0104	0.0056	0.0028	0.0362	0.0164
0.1716	0.0394	0.0052	0.0339	0.0324	0.0612	0.0015
0.9869	0.0892	0.0014	0.0189	0.2390	0.0033	0.0223
1.7791	0.1558	0.0081	0.8284	0.0171	0.0175	0.1982
0.2507	1.4898	0.0078	0.1465	0.0151	0.0192	0.0017
0.0639	0.0016	0.0080	0.3214	0.0025	0.1049	0.0394
0.0471	0.6685	0.0235	0.0248	0.0055	0.0086	0.1436
0.0091	0.0154	0.0128	0.0077	0.0278	0.0234	0.0033
0.0040	0.0068	3.3319	0.2867	0.0642	0.0864	0.0027
0.0188	0.3310	0.0359	0.0065	0.1739	0.1808	0.1684
0.0027	0.0373	0.1103	0.5419	0.0009	0.0050	0.7743
0.0808	0.0562	0.1871	0.0013	0.2696	0.0067	0.0711
0.0015	0.0346	0.7532	0.0992	0.0044	0.1541	0.0563

Attachment 3: Phosmet Acute Dietary Exposure Analysis: Residue Distribution Files.

0.0983	0.0042	0.0014	0.1297	0.0391	0.0434	0.1893
0.0804	0.0741	0.0175	0.0327	0.0496	0.1380	0.0959
0.6511	2.8315	0.0517	0.0294	0.0198	0.0229	0.0210
0.0335	0.0898	0.0003	0.0090	0.0477	0.1163	0.0121
0.0105	0.0042	0.0303	0.0580	0.0513	0.0083	0.2468
0.0338	0.0133	0.1330	0.1157	0.0088	0.1269	0.3166
0.0694	0.0008	0.0529	0.1121	0.0507	0.0036	0.0011
0.0549	0.0050	0.1005	0.3592	0.2749	0.0205	0.1257
0.0421	0.0053	0.0139	0.2022	0.0510	0.0172	0.0157
0.0139	0.1281	0.0070	0.0034	0.0284	0.2283	0.0169
0.1191	0.0323	0.0059	0.3507	0.0047	0.0010	0.0301
0.0119	0.1774	0.0061	0.0445	1.8054	0.0017	0.0099
0.0485	0.0833	0.0135	0.0005	0.0007	0.0269	0.0685
0.0207	0.0345	0.0162	0.0300	1.3940	0.0092	0.0430
0.2041	0.0231	0.0489	0.0224	0.4418	0.0264	0.0068
0.0005	0.0011	0.0428	0.1527	0.0043	0.0019	0.0058
0.0445	0.0153	0.1662	0.0012	0.0737	0.0024	0.0480
0.1705	0.0083	0.0237	0.0084	0.6871	0.0114	0.0382
0.0142	0.2319	0.0020	0.0037	0.0196	0.0189	0.0092
0.0147	1.5382	0.0329	0.0185	0.0969	0.0028	0.1030
0.0260	0.0221	0.2166	0.0022	1.7146	0.0536	0.0778
0.0180	0.2083	0.3065	0.0218	0.1395	0.0091	0.5679
0.3320	0.0100	0.0216	0.0161	0.0096	0.0179	0.1233

Phosmet, Nectarine Non-Blended [decomposite from PDP peach monitoring]

½ Wtd. LOD = 0.0083

TOTALZ=3181

176,0.0083	0.1498	0.0311	0.0048	0.0117	0.0103	0.0571
0.0435	0.0201	0.0038	0.0746	0.0039	0.4085	0.1514
0.0414	0.0124	0.0541	0.0490	0.0057	0.0070	0.3516
0.0475	0.4851	0.0420	0.4030	0.0671	0.6868	0.0655
0.9471	0.0223	0.1150	0.0823	0.0029	0.9069	0.0382
0.0204	0.0138	0.0054	0.0275	0.3129	0.1207	0.0014
0.0181	0.0157	0.0302	0.0017	0.0426	0.0028	0.0130
0.1238	0.0042	0.4669	0.0879	0.0325	0.0044	0.1265
0.0030	0.0443	0.0447	0.0340	0.1749	0.0035	0.0088
0.0150	0.1110	0.0268	0.0049	0.8194	0.0171	0.0343
0.3696	0.0462	0.0080	1.2277	0.0052	0.0601	0.0114
0.1192	0.0066	0.0072	0.0334	0.0882	0.5645	2.2825
0.0727	0.0146	0.0209	0.0059	0.0254	0.0848	0.0503
0.0359	0.0530	0.0177	0.5215	0.0199	0.0046	0.0270
0.0094	0.0047	0.0074	0.0143	1.9104	0.0619	0.0159
0.2009	0.1359	0.0059	0.4411	0.1256	0.3204	1.1321
0.3638	0.0019	0.0155	0.7055	0.0109	5.1643	0.0612
0.1873	0.0033	0.0196	0.1034	0.0776	0.1448	0.0299
0.0272	0.0070	0.0911	0.0581	0.1095	0.0077	0.0228
0.3562	0.0044	0.1604	0.0694	0.0032	0.2053	0.0533
0.0512	0.0386	0.0112	0.0517	0.0183	0.0376	0.0106
0.0337	0.0048	0.0075	0.0054	0.0095	0.0681	0.1432
0.0002	0.0243	0.1666	0.0122	0.0697	0.0187	0.2202
1.0274	0.1413	0.2289	0.0577	0.0903	0.0111	0.0801
0.1478	0.0093	0.1811	0.1146	0.0231	0.2901	0.0119
0.0168	0.0193	0.1567	0.0379	0.0140	0.0713	0.0398
0.0410	0.2086	0.0422	8.9607	0.1770	0.2840	0.0214
0.4168	0.1642	0.0480	0.1330	0.0037	0.0067	0.0208
0.0868	0.0051	0.0309	0.0101	0.1219	0.0018	0.1914
0.0004	0.0832	0.2551	0.0290	1.3376	0.0265	0.0108
0.0031	2.7990	0.0164	0.0100	0.0158	0.0351	0.0295
0.0011	0.0006	0.2168	0.0011	0.0248	0.1833	0.0110
0.0196	0.2533	0.0921	0.0016	0.0092	0.1182	0.0060
0.0629	0.4326	0.0595	0.0191	0.2242	0.0282	0.0400
0.0025	0.0765	0.3808	0.0026	0.0349	0.0190	0.0135
0.0467	0.0021	0.0024	1.0624	0.2710	0.0212	0.0327
0.0488	0.2142	0.2760	0.0754	0.0462	0.0003	0.0082
0.2970	0.3072	0.0042	0.0261	0.0010	0.1130	0.0496
0.1059	0.1002	0.3055	0.0008	0.1047	0.0173	0.1008
0.1175	0.0121	0.4499	0.0064	0.1948	0.0025	0.0009
0.0756	0.0138	0.0069	0.0006	0.0369	0.7416	0.0116

Attachment 3: Phosmet Acute Dietary Exposure Analysis: Residue Distribution Files.

0.0084	0.0217	0.0553	0.0035	0.0023	0.0241	0.2819
0.0525	0.2341	3.6061	0.0588	0.0471	0.0046	0.0135
0.0114	0.0440	0.0023	4.1875	0.0593	0.0130	0.0005
0.0564	0.1024	0.0304	0.0045	0.3013	0.5804	0.0034
0.1108	0.0087	0.0175	0.0439	0.2233	0.0152	0.2518
0.0178	0.0551	0.0151	0.0413	0.0458	0.0108	0.0787
0.0252	0.1591	0.0053	0.0755	0.0281	0.8870	0.0009
0.0256	0.1969	0.0779	0.0128	0.0165	0.0976	0.0137
0.0241	0.0041	0.0023	0.0202	0.0022	0.0936	0.3663
0.0432	0.0589	0.0687	0.1629	2.0432	0.0421	0.0026
0.1084	0.1537	0.0129	0.0078	0.0016	0.5034	0.0025
0.0979	0.0038	0.0013	0.0043	0.0113	0.0167	0.0947
0.0133	0.0013	0.0278	0.0087	0.2440	0.0177	0.0112
0.5888	0.0218	0.0004	0.0000	0.1096	0.6294	0.2958
0.0545	0.1385	0.0015	0.0149	0.1484	0.0002	0.4870
0.0176	0.0030	0.0103	0.0024	0.0069	0.0123	0.0199
0.5317	0.0101	0.0632	0.0289	0.0004	0.0537	0.0065
0.0453	0.0026	0.0037	0.1072	0.0101	0.0041	0.1215
0.0066	0.0005	0.0249	0.0320	0.2357	0.3858	0.0253
0.0012	0.0079	0.2120	0.0208	0.1045	0.0156	0.1175
0.0160	0.0084	0.0077	0.0855	0.0616	1.0439	0.0380
0.0007	0.0043	0.0793	0.0073	0.0030	0.0048	0.0035
0.0119	0.0242	2.1610	0.0543	0.0036	0.1412	0.0623
0.5545	0.0289	0.0390	0.0813	0.0214	0.0032	1.3310
0.0056	0.0081	0.0279	0.0226	0.0058	0.4541	0.2551
0.0105	0.0125	0.0286	0.0064	0.0108	1.1630	0.0849
0.0239	0.0184	0.0706	0.0376	0.0117	0.0873	0.0213
0.0080	0.0132	0.1280	0.0031	0.0525	0.0018	0.0661
0.0943	0.0931	0.8666	0.0561	0.0027	0.0040	0.0016
0.0045	0.0320	0.0020	0.1585	0.0029	0.0912	0.2678
0.0061	0.2421	0.0295	0.0194	0.4736	0.2157	0.0060
0.0984	0.0126	0.0165	0.0312	0.2115	0.0038	0.0350
0.0000	0.0087	0.3377	0.7255	0.0030	0.0144	0.0122
0.0022	0.0224	0.2449	0.1734	0.0013	0.0603	0.1130
0.0357	0.0075	0.1701	0.2597	0.1223	0.0700	0.0355
0.1307	0.0052	0.0502	0.0187	0.0040	0.0063	0.0502
0.0514	0.0604	0.0021	0.0635	0.0750	0.0073	0.0307
0.0090	0.0659	0.2658	0.0653	0.1569	0.0046	0.0266
0.0034	0.0097	0.0144	1.2413	0.0466	0.0453	0.0797
0.0012	0.0408	0.6147	0.0109	0.0076	0.0095	0.0085
0.0019	0.0162	0.2816	0.1455	0.0070	0.0112	0.0051
0.0085	0.0404	0.0365	0.1142	0.0054	0.0039	0.0707
0.0233	0.0646	0.0147	0.4571	0.0366	0.0062	0.0057
0.0262	0.4991	0.0720	0.0104	0.0056	0.0028	0.0362
0.1993	0.1716	0.0394	0.0052	0.0339	0.0324	0.0612
0.5965	0.9869	0.0892	0.0014	0.0189	0.2390	0.0033
0.0331	1.7791	0.1558	0.0081	0.8284	0.0171	0.0175
0.0098	0.2507	1.4898	0.0078	0.1465	0.0151	0.0192
0.0210	0.0639	0.0016	0.0080	0.3214	0.0025	0.1049
0.7783	0.0471	0.6685	0.0235	0.0248	0.0055	0.0086
0.3887	0.0091	0.0154	0.0128	0.0077	0.0278	0.0234
0.0096	0.0040	0.0068	3.3319	0.2867	0.0642	0.0864
0.0036	0.0188	0.3310	0.0359	0.0065	0.1739	0.1808
0.0063	0.0027	0.0373	0.1103	0.5419	0.0009	0.0050
0.0226	0.0808	0.0562	0.1871	0.0013	0.2696	0.0067
0.0836	0.0015	0.0346	0.7532	0.0992	0.0044	0.1541
0.0169	0.0072	0.0022	0.0093	0.9979	1.0986	0.0670
0.0008	0.1848	0.0062	0.0454	0.0075	0.0098	0.0246
0.0049	0.0149	0.0321	0.0159	0.0103	0.0021	0.0296
0.1348	0.2380	0.0142	0.0573	0.3279	0.0386	0.0008
0.0819	0.2622	0.0258	0.0371	0.0599	0.1372	0.0272
0.0064	0.0018	0.6473	0.1511	0.5321	0.6011	0.0067
0.0312	0.1399	0.0203	0.0554	0.0887	0.1062	0.0928
0.1669	0.0235	0.0669	0.0343	0.0155	0.1824	0.0142
0.0856	0.0968	1.4851	0.0904	0.0574	0.0116	0.0072
0.0621	0.0221	0.1320	0.0729	0.0146	0.0315	0.0721
0.0009	0.0028	0.0957	0.2899	0.0369	0.0131	0.4148
0.4790	0.0136	0.1065	0.0310	0.1863	0.0840	0.0650
0.0454	0.3417	0.0056	0.5181	0.1609	0.0259	0.0097
0.0363	0.0032	0.0737	0.2241	0.0351	0.0415	0.0182
0.0315	0.0128	0.0058	0.1932	0.0125	0.0126	0.1356

Attachment 3: Phosmet Acute Dietary Exposure Analysis: Residue Distribution Files.

0.0290	0.9438	0.0549	0.0011	0.1297	0.0510	0.0024
0.0020	0.0245	0.0421	0.0153	0.0327	0.0284	0.0114
0.6599	0.4254	0.0139	0.0083	0.0294	0.0047	0.0189
0.0081	0.0252	0.1191	0.2319	0.0090	1.8054	0.0028
0.0119	0.3717	0.0119	1.5382	0.0580	0.0007	0.0536
0.0049	0.0395	0.0485	0.0221	0.1157	1.3940	0.0091
0.0663	0.0403	0.0207	0.2083	0.1121	0.4418	0.0179
0.3799	0.4049	0.2041	0.0100	0.3592	0.0043	0.1893
0.0402	0.0678	0.0005	0.0014	0.2022	0.0737	0.0959
0.0467	0.0271	0.0445	0.0175	0.0034	0.6871	0.0210
0.0241	0.0285	0.1705	0.0517	0.3507	0.0196	0.0121
0.1022	0.0164	0.0142	0.0003	0.0445	0.0969	0.2468
0.0408	0.0015	0.0147	0.0303	0.0005	1.7146	0.3166
0.4011	0.0223	0.0260	0.1330	0.0300	0.1395	0.0011
0.0107	0.1982	0.0180	0.0529	0.0224	0.0096	0.1257
6.7907	0.0017	0.3320	0.1005	0.1527	0.0434	0.0157
0.0201	0.0394	0.0042	0.0139	0.0012	0.1380	0.0169
0.1311	0.1436	0.0741	0.0070	0.0084	0.0229	0.0301
0.0007	0.0033	2.8315	0.0059	0.0037	0.1163	0.0099
0.3445	0.0027	0.0898	0.0061	0.0185	0.0083	0.0685
0.0783	0.1684	0.0042	0.0135	0.0022	0.1269	0.0430
0.0054	0.7743	0.0133	0.0162	0.0218	0.0036	0.0068
0.8452	0.0711	0.0008	0.0489	0.0161	0.0205	0.0058
0.0629	0.0563	0.0050	0.0428	0.0391	0.0172	0.0480
0.0769	0.0983	0.0053	0.1662	0.0496	0.2283	0.0382
2.4029	0.0804	0.1281	0.0237	0.0198	0.0010	0.0092
0.0255	0.6511	0.0323	0.0020	0.0477	0.0017	0.1030
0.0822	0.0335	0.1774	0.0329	0.0513	0.0269	0.0778
0.0012	0.0105	0.0833	0.2166	0.0088	0.0092	0.5679
0.1965	0.0338	0.0345	0.3065	0.0507	0.0264	0.1233
0.0276	0.0694	0.0231	0.0216	0.2749	0.0019	
0.0019						

Phosmet, Plum Non-Blended [decomposite from PDP peach monitoring]

½ Wtd. LOD = 0.0083

TOTALZ=15631

176,0.0083	0.0196	0.1413	0.0074	0.0275	0.0261	0.1219
0.0435	0.0629	0.0093	0.0059	0.0017	0.0008	1.3376
0.0414	0.0025	0.0193	0.0155	0.0879	0.0064	0.0158
0.0475	0.0467	0.2086	0.0196	0.0340	0.0006	0.0248
0.9471	0.0488	0.1642	0.0911	0.0049	0.0117	0.0092
0.0204	0.2970	0.0051	0.1604	1.2277	0.0039	0.2242
0.0181	0.1059	0.0832	0.0112	0.0334	0.0057	0.0349
0.1238	0.1175	2.7990	0.0075	0.0059	0.0671	0.2710
0.0030	0.0756	0.0006	0.1666	0.5215	0.0029	0.0462
0.0150	0.1498	0.2533	0.2289	0.0143	0.3129	0.0010
0.3696	0.0201	0.4326	0.1811	0.4411	0.0426	0.1047
0.1192	0.0124	0.0765	0.1567	0.7055	0.0325	0.1948
0.0727	0.4851	0.0021	0.0422	0.1034	0.1749	0.0369
0.0359	0.0223	0.2142	0.0480	0.0581	0.8194	0.0103
0.0094	0.0138	0.3072	0.0309	0.0694	0.0052	0.4085
0.2009	0.0157	0.1002	0.2551	0.0517	0.0882	0.0070
0.3638	0.0042	0.0121	0.0164	0.0054	0.0254	0.6868
0.1873	0.0443	0.0138	0.2168	0.0122	0.0199	0.9069
0.0272	0.1110	0.0311	0.0921	0.0577	1.9104	0.1207
0.3562	0.0462	0.0038	0.0595	0.1146	0.1256	0.0028
0.0512	0.0066	0.0541	0.3808	0.0379	0.0109	0.0044
0.0337	0.0146	0.0420	0.0024	8.9607	0.0776	0.0035
0.0002	0.0530	0.1150	0.2760	0.1330	0.1095	0.0171
1.0274	0.0047	0.0054	0.0042	0.0101	0.0032	0.0601
0.1478	0.1359	0.0302	0.3055	0.0290	0.0183	0.5645
0.0168	0.0019	0.4669	0.4499	0.0100	0.0095	0.0848
0.0410	0.0033	0.0447	0.0069	0.0011	0.0697	0.0046
0.4168	0.0070	0.0268	0.0048	0.0016	0.0903	0.0619
0.0868	0.0044	0.0080	0.0746	0.0191	0.0231	0.3204
0.0004	0.0386	0.0072	0.0490	0.0026	0.0140	5.1643
0.0031	0.0048	0.0209	0.4030	1.0624	0.1770	0.1448
0.0011	0.0243	0.0177	0.0823	0.0754	0.0037	0.0077

Attachment 3: Phosmet Acute Dietary Exposure Analysis: Residue Distribution Files.

0.2053	0.0241	0.0041	0.0023	0.0202	0.0022	0.0936
0.0376	0.0432	0.0589	0.0687	0.1629	2.0432	0.0421
0.0681	0.1084	0.1537	0.0129	0.0078	0.0016	0.5034
0.0187	0.0979	0.0038	0.0013	0.0043	0.0113	0.0167
0.0111	0.0133	0.0013	0.0278	0.0087	0.2440	0.0177
0.2901	0.5888	0.0218	0.0004	0.0000	0.1096	0.6294
0.0713	0.0545	0.1385	0.0015	0.0149	0.1484	0.0002
0.2840	0.0176	0.0030	0.0103	0.0024	0.0069	0.0123
0.0067	0.5317	0.0101	0.0632	0.0289	0.0004	0.0537
0.0018	0.0453	0.0026	0.0037	0.1072	0.0101	0.0041
0.0265	0.0066	0.0005	0.0249	0.0320	0.2357	0.3858
0.0351	0.0012	0.0079	0.2120	0.0208	0.1045	0.0156
0.1833	0.0160	0.0084	0.0077	0.0855	0.0616	1.0439
0.1182	0.0007	0.0043	0.0793	0.0073	0.0030	0.0048
0.0282	0.0119	0.0242	2.1610	0.0543	0.0036	0.1412
0.0190	0.5545	0.0289	0.0390	0.0813	0.0214	0.0032
0.0212	0.0056	0.0081	0.0279	0.0226	0.0058	0.4541
0.0003	0.0105	0.0125	0.0286	0.0064	0.0108	1.1630
0.1130	0.0239	0.0184	0.0706	0.0376	0.0117	0.0873
0.0173	0.0080	0.0132	0.1280	0.0031	0.0525	0.0018
0.0025	0.0943	0.0931	0.8666	0.0561	0.0027	0.0040
0.7416	0.0045	0.0320	0.0020	0.1585	0.0029	0.0912
0.0571	0.0061	0.2421	0.0295	0.0194	0.4736	0.2157
0.1514	0.0984	0.0126	0.0165	0.0312	0.2115	0.0038
0.3516	0.0000	0.0087	0.3377	0.7255	0.0030	0.0144
0.0655	0.0022	0.0224	0.2449	0.1734	0.0013	0.0603
0.0382	0.0357	0.0075	0.1701	0.2597	0.1223	0.0700
0.0014	0.1307	0.0052	0.0502	0.0187	0.0040	0.0063
0.0130	0.0514	0.0604	0.0021	0.0635	0.0750	0.0073
0.1265	0.0090	0.0659	0.2658	0.0653	0.1569	0.0046
0.0088	0.0034	0.0097	0.0144	1.2413	0.0466	0.0453
0.0343	0.0012	0.0408	0.6147	0.0109	0.0076	0.0095
0.0114	0.0019	0.0162	0.2816	0.1455	0.0070	0.0112
2.2825	0.0085	0.0404	0.0365	0.1142	0.0054	0.0039
0.0503	0.0233	0.0646	0.0147	0.4571	0.0366	0.0062
0.0270	0.0262	0.4991	0.0720	0.0104	0.0056	0.0028
0.0159	0.1993	0.1716	0.0394	0.0052	0.0339	0.0324
1.1321	0.5965	0.9869	0.0892	0.0014	0.0189	0.2390
0.0612	0.0331	1.7791	0.1558	0.0081	0.8284	0.0171
0.0299	0.0098	0.2507	1.4898	0.0078	0.1465	0.0151
0.0228	0.0210	0.0639	0.0016	0.0080	0.3214	0.0025
0.0533	0.7783	0.0471	0.6685	0.0235	0.0248	0.0055
0.0106	0.3887	0.0091	0.0154	0.0128	0.0077	0.0278
0.1432	0.0096	0.0040	0.0068	3.3319	0.2867	0.0642
0.2202	0.0036	0.0188	0.3310	0.0359	0.0065	0.1739
0.0801	0.0063	0.0027	0.0373	0.1103	0.5419	0.0009
0.0119	0.0226	0.0808	0.0562	0.1871	0.0013	0.2696
0.0398	0.0836	0.0015	0.0346	0.7532	0.0992	0.0044
0.0214	0.0169	0.0072	0.0022	0.0093	0.9979	1.0986
0.0208	0.0008	0.1848	0.0062	0.0454	0.0075	0.0098
0.1914	0.0049	0.0149	0.0321	0.0159	0.0103	0.0021
0.0108	0.1348	0.2380	0.0142	0.0573	0.3279	0.0386
0.0295	0.0819	0.2622	0.0258	0.0371	0.0599	0.1372
0.0110	0.0064	0.0018	0.6473	0.1511	0.5321	0.6011
0.0060	0.0312	0.1399	0.0203	0.0554	0.0887	0.1062
0.0400	0.1669	0.0235	0.0669	0.0343	0.0155	0.1824
0.0135	0.0856	0.0968	1.4851	0.0904	0.0574	0.0116
0.0327	0.0621	0.0221	0.1320	0.0729	0.0146	0.0315
0.0082	0.0009	0.0028	0.0957	0.2899	0.0369	0.0131
0.0496	0.4790	0.0136	0.1065	0.0310	0.1863	0.0840
0.1008	0.0454	0.3417	0.0056	0.5181	0.1609	0.0259
0.0009	0.0363	0.0032	0.0737	0.2241	0.0351	0.0415
0.0116	0.0315	0.0128	0.0058	0.1932	0.0125	0.0126
0.0084	0.0217	0.0553	0.0035	0.0023	0.0241	0.2819
0.0525	0.2341	3.6061	0.0588	0.0471	0.0046	0.0135
0.0114	0.0440	0.0023	4.1875	0.0593	0.0130	0.0005
0.0564	0.1024	0.0304	0.0045	0.3013	0.5804	0.0034
0.1108	0.0087	0.0175	0.0439	0.2233	0.0152	0.2518
0.0178	0.0551	0.0151	0.0413	0.0458	0.0108	0.0787
0.0252	0.1591	0.0053	0.0755	0.0281	0.8870	0.0009
0.0256	0.1969	0.0779	0.0128	0.0165	0.0976	0.0137

Attachment 3: Phosmet Acute Dietary Exposure Analysis: Residue Distribution Files.

0.3663	0.0086	0.0007	0.6511	1.5382	0.0300	0.0205
0.0026	0.0234	0.3445	0.0335	0.0221	0.0224	0.0172
0.0025	0.0864	0.0783	0.0105	0.2083	0.1527	0.2283
0.0947	0.1808	0.0054	0.0338	0.0100	0.0012	0.0010
0.0112	0.0050	0.8452	0.0694	0.0014	0.0084	0.0017
0.2958	0.0067	0.0629	0.0549	0.0175	0.0037	0.0269
0.4870	0.1541	0.0769	0.0421	0.0517	0.0185	0.0092
0.0199	0.0670	2.4029	0.0139	0.0003	0.0022	0.0264
0.0065	0.0246	0.0255	0.1191	0.0303	0.0218	0.0019
0.1215	0.0296	0.0822	0.0119	0.1330	0.0161	0.0024
0.0253	0.0008	0.0012	0.0485	0.0529	0.0391	0.0114
0.1175	0.0272	0.1965	0.0207	0.1005	0.0496	0.0189
0.0380	0.0067	0.0276	0.2041	0.0139	0.0198	0.0028
0.0035	0.0928	0.0019	0.0005	0.0070	0.0477	0.0536
0.0623	0.0142	0.9438	0.0445	0.0059	0.0513	0.0091
1.3310	0.0072	0.0245	0.1705	0.0061	0.0088	0.0179
0.2551	0.0721	0.4254	0.0142	0.0135	0.0507	0.1893
0.0849	0.4148	0.0252	0.0147	0.0162	0.2749	0.0959
0.0213	0.0650	0.3717	0.0260	0.0489	0.0510	0.0210
0.0661	0.0097	0.0395	0.0180	0.0428	0.0284	0.0121
0.0016	0.0182	0.0403	0.3320	0.1662	0.0047	0.2468
0.2678	0.1356	0.4049	0.0042	0.0237	1.8054	0.3166
0.0060	0.0290	0.0678	0.0741	0.0020	0.0007	0.0011
0.0350	0.0020	0.0271	2.8315	0.0329	1.3940	0.1257
0.0122	0.6599	0.0285	0.0898	0.2166	0.4418	0.0157
0.1130	0.0081	0.0164	0.0042	0.3065	0.0043	0.0169
0.0355	0.0119	0.0015	0.0133	0.0216	0.0737	0.0301
0.0502	0.0049	0.0223	0.0008	0.1297	0.6871	0.0099
0.0307	0.0663	0.1982	0.0050	0.0327	0.0196	0.0685
0.0266	0.3799	0.0017	0.0053	0.0294	0.0969	0.0430
0.0797	0.0402	0.0394	0.1281	0.0090	1.7146	0.0068
0.0085	0.0467	0.1436	0.0323	0.0580	0.1395	0.0058
0.0051	0.0241	0.0033	0.1774	0.1157	0.0096	0.0480
0.0707	0.1022	0.0027	0.0833	0.1121	0.0434	0.0382
0.0057	0.0408	0.1684	0.0345	0.3592	0.1380	0.0092
0.0362	0.4011	0.7743	0.0231	0.2022	0.0229	0.1030
0.0612	0.0107	0.0711	0.0011	0.0034	0.1163	0.0778
0.0033	6.7907	0.0563	0.0153	0.3507	0.0083	0.5679
0.0175	0.0201	0.0983	0.0083	0.0445	0.1269	0.1233
0.0192	0.1311	0.0804	0.2319	0.0005	0.0036	
0.1049						

Phosmet: Sweet Potato Unit Residues [Decomposed from PDP Monitoring Data]

½ Wtd. LOD = 0.0064

TOTALZ=16118

213.0.0064	0.7003	0.0138	0.0055	0.0084	0.0523	0.3242
0.0393	0.1198	0.0155	0.0709	0.0076	0.2836	0.4973
0.0376	0.0165	0.0047	1.7448	0.0201	0.0028	0.0865
0.0426	0.0373	0.0399	0.0008	0.0173	0.2115	0.0512
0.6503	0.3079	0.0923	0.1956	0.0078	0.0046	0.0601
0.0197	0.0737	0.0415	0.3185	0.0063	0.2320	0.0460
0.0177	0.0005	0.0071	0.0657	0.0153	0.3301	0.0059
0.1019	0.0036	0.0145	0.0025	0.0190	0.0074	0.0124
0.0034	0.0014	0.0470	0.1679	0.0771	0.0053	0.0508
0.0149	0.0191	0.0051	0.2332	0.1290	0.0643	0.0950
0.2760	0.0550	0.1110	0.0841	0.0114	0.0438	0.0347
0.0985	0.0029	0.0022	0.0123	0.0079	0.2986	5.0354
0.0628	0.0419	0.0038	0.0138	0.1336	0.0703	0.1088
0.0330	0.0437	0.0075	0.0289	0.1784	0.0259	0.0104
0.0097	0.2261	0.0048	0.0042	0.1441	0.0021	0.0272
0.1584	0.0884	0.0352	0.0480	0.1263	0.0746	0.0103
0.2721	0.0971	0.0052	0.0380	0.0382	0.0314	0.0013
0.1486	0.0650	0.0232	0.0953	0.0430	0.0054	0.0019
0.0256	0.1213	0.1150	0.0059	0.0288	0.8237	0.0186
0.2669	0.0194	0.0097	0.0282	0.1969	0.0309	0.0030
0.0456	0.0125	0.0188	0.3414	0.0162	0.0064	0.7220
0.0312	0.3535	0.1639	0.0403	0.1698	0.3776	0.0648
0.0003	0.0214	0.1318	0.0253	0.0778	0.0142	0.0247

Attachment 3: Phosmet Acute Dietary Exposure Analysis: Residue Distribution Files.

0.0011	0.0071	0.3843	0.0104	0.0552	0.0022	0.0196
0.0068	0.0022	0.0408	0.0030	0.0041	0.0106	0.1305
0.0008	0.0250	0.0070	0.0007	0.0237	0.2548	0.0372
0.0119	0.0324	0.0015	0.0083	0.1664	0.0697	0.0064
0.0044	0.1457	0.0158	0.0088	0.0081	0.0092	0.3323
0.0062	0.0977	0.0009	0.0048	0.0679	1.9321	0.0624
0.0584	0.0265	0.0121	0.0230	1.3785	0.1052	0.0199
0.0033	0.0185	0.3994	0.0271	0.0356	0.0933	0.2624
0.2371	0.0204	0.0060	0.0085	0.0263	0.0543	0.0205
0.0386	0.0004	0.0107	0.0126	0.0268	0.0026	0.0089
0.0302	0.0938	0.0227	0.0180	0.0611	0.2087	0.0214
0.1396	0.0170	0.0084	0.0132	0.1051	0.7366	0.0058
0.5699	0.0029	0.0796	0.0786	0.5997	0.0176	0.0130
0.0057	0.5204	0.0050	0.0297	0.0024	0.0381	0.0640
0.0748	0.0504	0.0066	0.1877	0.0276	0.0473	0.0099
0.0241	0.1224	0.0826	0.0127	0.0163	0.0690	0.1026
0.0193	0.2637	0.0001	0.0090	0.2542	0.3997	0.1781
1.2321	0.0571	0.0026	0.0215	0.1897	0.5250	0.0551
0.1032	0.0349	0.0328	0.0079	0.1361	0.0041	0.0087
0.0111	0.0017	0.1071	0.0056	0.0448	0.0070	0.3871
0.0666	0.0131	0.0457	0.0530	0.0024	0.0060	0.0224
0.0912	0.1039	0.0094	0.0574	0.2044	2.3622	0.0233
0.0037	0.0092	0.0038	0.0100	0.0143	0.0305	0.0059
0.0178	0.0316	0.0015	0.0371	0.4387	0.0065	0.0276
0.0099	0.0116	0.0023	0.0160	0.2154	0.2044	0.0190
0.0604	1.4490	0.0089	0.0367	0.0335	0.0132	0.0039
0.0764	0.0449	0.0222	0.0564	0.0146	0.0006	0.0030
0.0221	0.0255	0.0248	0.3628	0.0622	0.0074	0.0884
0.0140	0.0157	0.1572	0.1372	0.0359	0.0306	0.0266
0.1411	0.7650	0.4268	0.6751	0.0756	0.2100	0.1150
0.0042	0.0536	0.0306	1.1548	0.1257	0.2656	0.2956
0.1005	0.0280	0.0101	0.1938	0.9824	0.6259	0.0285
0.8905	0.0219	0.0202	0.0558	0.0019	0.4262	0.0029
0.0156	0.0473	0.5438	0.0423	0.4735	0.0121	0.0237
0.0235	0.0108	0.2890	0.0094	0.0153	0.0114	0.0054
0.0096	0.1164	0.0099	0.0045	0.0072	0.0628	0.5450
0.1750	0.1722	0.0040	0.0184	0.2496	0.0031	0.0317
0.0321	0.0685	0.0067	0.0032	0.0341	0.1980	0.0485
0.2080	0.0120	0.0217	0.0691	0.0496	0.0252	0.1845
0.0415	0.0362	0.0713	0.0018	0.0319	0.0668	0.1231
0.0012	0.0206	0.0166	0.0077	0.0026	0.2283	0.0215
0.0875	0.0200	0.0010	0.1468	0.0067	0.0016	0.0062
0.1540	0.1515	0.0054	0.0148	0.0298	0.0078	0.0268
0.0339	0.0110	0.1101	0.1848	0.0142	0.0018	0.0069
0.0106	0.0276	0.0699	0.2019	0.0244	0.0480	0.0111
0.3023	0.0112	0.0069	0.0021	0.4598	0.1160	0.2493
0.0074	0.0065	0.0290	0.1139	0.0197	0.0344	0.1537
0.4852	0.0364	0.1337	0.0225	0.0582	0.0758	0.0182
0.6251	0.0135	0.0728	0.0815	0.9796	0.9390	0.0832
0.0996	0.0303	0.0543	0.0212	0.1080	0.0167	0.0372
0.0033	0.0086	0.0011	0.0032	0.0806	0.8127	0.0002
0.0049	0.0443	0.3495	0.0136	0.0888	0.0376	0.0096
0.0039	0.0845	0.0409	0.2569	0.0061	0.0792	0.0336
0.0168	0.0012	0.0334	0.0036	0.0636	0.1590	0.0112
0.0528	0.0118	0.0293	0.0129	0.0063	0.0093	0.0162
0.4059	0.0088	0.0208	0.0489	0.0039	0.2751	0.0005
0.0722	0.0467	0.1820	2.1977	0.0949	0.0109	0.2894
0.0050	0.0116	0.0397	0.0028	0.0226	0.0905	0.1798
0.0542	0.0498	0.0858	0.0284	0.0560	0.0020	0.3223
0.2423	0.0921	0.0091	0.0171	0.0133	0.4896	0.1516
3.0482	0.0174	0.0488	0.0150	0.0032	0.0043	0.2397
0.1175	0.0239	0.1281	0.0057	0.0057	0.0412	0.0042
0.0081	0.0243	0.1555	0.0668	0.0834	0.3640	0.1956
0.1615	0.0230	0.0045	0.0027	0.0749	0.0068	0.1324
0.0344	0.0391	0.0518	0.0596	0.0326	0.1422	0.0667
0.0591	0.0903	0.1241	0.0130	0.0036	0.0007	0.0489
0.0182	0.0823	0.0043	0.0016	0.0926	0.0240	0.0149
0.0114	0.0133	0.0016	0.0261	0.0166	0.2166	0.1102
0.2214	0.4217	0.0210	0.0006	0.0152	0.0056	0.0067
0.0617	0.0482	0.1128	0.0019	0.0708	0.0656	0.1109
0.2171	0.0172	0.0035	0.0106	0.0634	0.0026	0.3006

Attachment 3: Phosmet Acute Dietary Exposure Analysis: Residue Distribution Files.

0.1338	0.0015	0.0028	0.0362	0.0138	0.0962	0.2419
0.0088	1.3795	0.1023	0.0037	0.0098	0.0291	0.0197
0.0128	0.0421	0.0155	0.0396	0.0328	0.0433	0.3127
0.0084	0.0013	0.0171	0.0164	0.0224	0.1551	0.0019
0.0719	0.0408	0.0004	0.0253	0.0051	0.0055	0.0448
0.2225	0.0017	0.0108	0.0100	0.0195	0.0258	0.0072
0.0887	0.0052	0.0207	0.0078	0.1878	0.0003	0.1209
0.0083	0.1688	0.0129	0.0171	0.0086	0.1041	0.0727
0.0807	0.1919	0.0025	0.0031	0.0780	0.0019	0.0394
0.0254	0.0961	0.3356	0.0383	0.2326	0.6525	0.0014
0.0463	0.0121	0.0021	0.0986	0.0053	0.0322	0.0010
0.0061	0.3514	0.1440	0.0726	0.0259	0.0010	0.0537
0.0075	0.0097	0.0311	0.0575	0.0179	0.0320	0.0242
0.0562	0.4555	0.0139	0.0048	0.0282	0.1664	0.0654
0.0015	0.0075	0.0028	0.0200	0.1451	0.0230	0.0169
0.0854	0.0401	0.0045	0.0187	0.0369	0.1060	0.0748
0.0023	0.1396	0.0071	0.0466	0.0333	0.0103	0.4091
0.0354	0.0425	0.0872	0.0105	0.0262	0.0033	0.0591
0.0525	3.2881	0.0338	0.1180	0.1296	0.1225	0.0050
0.0157	0.0118	0.1712	0.0188	0.0480	0.1006	0.1193
0.0246	0.0238	0.0034	0.0612	0.0737	0.4500	0.0568
0.0008	0.0126	0.0520	0.0011	0.0364	0.0131	0.0645
0.1907	0.0102	0.1561	0.0040	0.0183	0.0300	0.0309
0.3471	0.0249	0.0139	0.0357	0.0499	0.0189	0.6922
0.0007	0.0450	0.0244	8.4535	0.0144	0.1616	0.0616
0.0677	0.0043	0.0024	0.0797	0.3745	0.1133	0.0147
0.0039	0.0163	0.0389	0.0228	0.0413	0.0403	0.0817
0.0155	0.0125	0.0531	0.0518	0.2727	0.0540	0.0219
0.0077	0.0270	0.5081	0.8766	0.0173	0.0148	0.5578
0.0441	0.0141	0.2532	0.0300	0.0606	0.0090	0.2013
0.0107	0.0437	0.0314	0.0275	0.0507	0.1000	0.0511
0.0296	0.0502	1.2157	0.0022	0.5785	0.0810	0.0348
0.0068	0.0294	0.0580	0.0012	0.0217	0.0080	0.0586
0.0117	0.0034	1.1417	0.0154	0.0341	0.0330	0.1370
0.0076	0.0273	0.0428	0.0416	0.0085	0.0038	1.4882
0.0018	0.0903	0.0009	0.0046	0.4117	0.1078	0.0604
0.1093	0.0919	0.0436	0.0029	0.0095	0.0024	0.1484
0.0203	0.0046	0.0119	0.0159	0.0055	0.0385	0.1738
0.0286	0.0047	0.0081	0.0063	0.0048	0.0058	0.0065
0.0160	0.1262	0.0091	0.0860	0.0016	0.0555	0.0289
0.0150	0.0113	0.0012	0.0494	0.0082	0.0209	0.0979
0.0123	0.0035	0.1123	0.0355	0.2825	0.0136	0.0194
0.0700	0.1377	0.0768	0.0222	0.2291	0.0037	0.0453
0.0470	0.0145	0.1767	0.0083	0.0071	0.0280	0.0050
0.1253	0.4779	0.0208	0.0104	0.0178	0.0110	0.7625
0.0044	0.0213	0.0234	0.0770	0.0063	0.0135	0.3073
1.0006	0.0095	0.1638	0.1462	0.0351	0.1281	0.0027
0.0049	0.0685	0.0594	0.0142	0.0184	0.0458	0.0264
0.6844	0.0175	0.2188	0.0124	0.0115	0.0842	
0.0035						

Attachment 4. Phosmet Acute Probabilistic Dietary Exposure Analysis: Assessment 1.

U.S. Environmental Protection Agency
 DEEM Acute analysis for PHOSMET
 Residue file name: C:\DRESSAC\059201a1.r96
 Analysis Date 08-09-1999 Residue file dated: 07-30-1999/12:29:23/8
 Reference dose: aRfd = 0.045 mg/kg bw/day NOEL = 4.5 mg/kg bw/day
 Comment: UFs = 10 for intra- and 10 for inter-; FQPA SF = 1X [RfD = PAD for acute and chronic]. Includes RDFS for multiple commodities, based on PDP and FDA monitoring data.

RDF indices and file names for Monte Carlo Analysis

```

1 Phalmpb.rdf
2 Phapnb.rdf
3 Phappb.rdf
4 Phajpb.rdf
5 Phaprbp.rdf
6 Phaprnb.rdf
7 Phbbpb.rdf
8 Phchypb.rdf
9 Phmk.rdf
10 Phgppb.rdf
11 Phkwnb.rdf
12 Phnecnb.rdf
13 Phpcnb.rdf
14 Phpccnbp.rdf
15 Phpcpb.rdf
16 Phssprnb.rdf
17 Phprpb.rdf
18 Phsppb.rdf
19 Phpecpb.rdf
20 Phplnb.rdf
21 Phplpb.rdf
22 Phpopbnb.rdf
23 Phswpnb.rdf
24 Phswppb.rdf
25 Phwalpb.rdf
26 phbfm.rdf
27 phbfft.rdf
28 phbfswc.rdf
29 phswf.rdf
30 phgoatf.rdf
31 phgoatk.rdf
  
```

Food	Crop		RESIDUE	RDF	Adj. Factors	Code
Grp		Food Name	(ppm)	#	#1	#2
7	13B	Blueberries	0.009346	7	1.000	1.000
13	O	Grapes	0.001635	10	1.000	1.000
14	O	Grapes-raisins	0.001635	10	0.920	1.000
15	O	Grapes-juice	0.001635	10	0.680	1.000
40	14	Almonds	0.050000	1	1.000	1.000
41	14	Brazil nuts	0.050000	1	1.000	1.000
42	14	Cashews	0.050000	1	1.000	1.000
43	14	Chestnuts	0.050000	1	1.000	1.000
44	14	Filberts (hazelnuts)	0.050000	1	1.000	1.000
45	14	Hickory nuts	0.050000	1	1.000	1.000
46	14	Macadamia nuts (bush nuts)	0.050000	1	1.000	1.000
47	14	Pecans	0.050000	19	1.000	1.000
48	14	Walnuts	0.050000	25	1.000	1.000
49	14	Butter nuts	0.050000	1	1.000	1.000
51	14	Beech-nuts	0.050000	1	1.000	1.000
52	11	Apples				
		11-Uncooked	0.005476	2	1.000	1.000
		12-Cooked: NFS	0.005476	2	0.050	1.000
		13-Baked	0.005476	2	1.000	1.000
		14-Boiled	0.005476	2	0.050	1.000

Attachment 4. Phosmet Acute Probabilistic Dietary Exposure Analysis: Assessment 1.

		15-Fried	0.005476	2	1.000	1.000
		18-Dried	0.005476	0	0.100	1.000
		31-Canned: NFS	0.005476	3	0.050	1.000
		32-Canned: Cooked	0.005476	3	0.050	1.000
		33-Canned: Baked	0.005476	3	0.050	1.000
		34-Canned: Boiled	0.005476	3	0.050	1.000
		42-Frozen: Cooked	0.005476	3	0.050	1.000
53	11	Apples-dried	0.005476	3	0.100	1.000
54	11	Apples-juice/cider	0.001542	4	1.000	1.000
56	11	Pears				
		11-Uncooked	0.060339	16	1.000	1.000
		12-Cooked: NFS	0.060339	16	0.050	1.000
		13-Baked	0.060339	16	1.000	1.000
		14-Boiled	0.060339	16	0.050	1.000
		31-Canned: NFS	0.060339	17	0.050	1.000
57	11	Pears-dried	0.060339	17	0.100	1.000
59	12	Apricots				
		11-Uncooked	0.041239	6	1.000	1.000
		12-Cooked: NFS	0.041239	6	0.010	1.000
		14-Boiled	0.041239	6	0.010	1.000
		31-Canned: NFS	0.041239	5	0.010	1.000
		34-Canned: Boiled	0.041239	5	0.010	1.000
60	12	Apricots-dried	0.041239	5	0.320	1.000
61	12	Cherries	0.011745	7	1.000	1.000
62	12	Cherries-dried	0.011745	7	0.920	1.000
63	12	Cherries-juice	0.011745	7	0.680	1.000
64	12	Nectarines	0.024053	12	1.000	1.000
65	12	Peaches				
		11-Uncooked	0.033950	13	1.000	1.000
		12-Cooked: NFS	0.033950	13	0.010	1.000
		13-Baked	0.033950	13	1.000	1.000
		14-Boiled	0.033950	13	0.010	1.000
		31-Canned: NFS	0.033950	14	0.010	1.000
		41-Frozen: NFS	0.033950	15	1.000	1.000
66	12	Peaches-dried	0.033950	15	0.040	1.000
67	12	Plums (damsons)				
		11-Uncooked	0.006872	20	1.000	1.000
		12-Cooked: NFS	0.006872	20	0.010	1.000
		31-Canned: NFS	0.006872	21	0.010	1.000
		42-Frozen: Cooked	0.006872	21	0.010	1.000
		51-Cured: NFS (smoked/p	0.006872	21	0.320	1.000
68	12	Plums-prunes (dried)	0.006872	21	0.320	1.000
69	12	Plums/prune-juice	0.006872	21	0.320	1.000
97	O	Kiwi fruit	0.009360	11	1.000	1.000
207	1C	Potatoes/white-whole				
		11-Uncooked	0.000285	22	1.000	1.000
		12-Cooked: NFS	0.000285	22	0.500	1.000
		13-Baked	0.000285	22	0.500	1.000
		14-Boiled	0.000285	22	0.500	1.000
		15-Fried	0.000285	22	0.500	1.000
		31-Canned: NFS	0.000285	22	0.500	1.000
208	1C	Potatoes/white-unspecified				
		31-Canned: NFS	0.000285	22	0.500	1.000
209	1C	Potatoes/white-peeled				
		12-Cooked: NFS	0.000285	22	0.500	1.000
		13-Baked	0.000285	22	0.500	1.000
		14-Boiled	0.000285	22	0.500	1.000
		15-Fried	0.000285	22	0.500	1.000
		32-Canned: Cooked	0.000285	22	0.500	1.000
		34-Canned: Boiled	0.000285	22	0.500	1.000
		42-Frozen: Cooked	0.000285	22	0.500	1.000
		43-Frozen: Baked	0.000285	22	0.500	1.000

Attachment 4. Phosmet Acute Probabilistic Dietary Exposure Analysis: Assessment 1.

210 1C	Potatoes/white-dry	45-Frozen: Fried	0.000285	22	0.500	1.000
		12-Cooked: NFS	0.000285	0	0.500	1.000
		14-Boiled	0.000285	0	0.500	1.000
		15-Fried	0.000285	0	0.500	1.000
		31-Canned: NFS	0.000285	0	0.500	1.000
		34-Canned: Boiled	0.000285	0	0.500	1.000
		42-Frozen: Cooked	0.000285	0	0.500	1.000
211 1C	Potatoes/white-peel only					
		13-Baked	0.000285	22	0.900	1.000
		15-Fried	0.000285	22	0.900	1.000
218 1CD	Sweet potatoes (incl yams)					
		12-Cooked: NFS	0.006934	23	0.500	1.000
		13-Baked	0.006934	23	0.500	1.000
		14-Boiled	0.006934	23	0.500	1.000
		15-Fried	0.006934	23	0.500	1.000
		32-Canned: Cooked	0.006934	24	0.500	1.000
		34-Canned: Boiled	0.006934	24	0.500	1.000
230 6C	Beans-dry-navy (pea)					
240 6C	Peas (garden)-dry					
241 6AB	Peas (garden)-green					
258 6C	Beans-dry-blackeye peas/cowpea					
290 O	Cottonseed-oil					
291 O	Cottonseed-meal					
315 O	Grapes-wine and sherry					
318 D	Milk-nonfat solids					
319 D	Milk-fat solids					
320 D	Milk sugar (lactose)					
321 M	Beef-meat byproducts					
322 M	Beef-other organ meats					
323 M	Beef-dried					
324 M	Beef-fat w/o bones					
325 M	Beef-kidney					
326 M	Beef-liver					
327 M	Beef-lean (fat/free) w/o bones					
328 M	Goat-meat byproducts					
329 M	Goat-other organ meats					
330 M	Goat-fat w/o bone					
331 M	Goat-kidney					
333 M	Goat-lean (fat/free) w/o bone					
334 M	Horsemeat					
336 M	Sheep-meat byproducts					
337 M	Sheep-other organ meats					
338 M	Sheep-fat w/o bone					
339 M	Sheep-kidney					
341 M	Sheep-lean (fat free) w/o bone					
342 M	Pork-meat byproducts					
343 M	Pork-other organ meats					
344 M	Pork-fat w/o bone					
345 M	Pork-kidney					
346 M	Pork-liver					
347 M	Pork-lean (fat free) w/o bone					
377 11	Apples-juice-concentrate					
392 O	Grapes-juice-concentrate					
398 D	Milk-based water					
402 12	Peaches-juice					
404 11	Pears-juice					
405 6B	Peas-succulent/blackeye/cowpea					
410 12	Apricot juice					
424 M	Veal-fat w/o bones					
425 M	Veal-lean (fat free) w/o bones					
426 M	Veal-kidney					

Attachment 4. Phosmet Acute Probabilistic Dietary Exposure Analysis: Assessment 1.

428 M	Veal-other organ meats	0.020000	31	1.000	1.000
429 M	Veal-dried	0.000192	9	1.920	1.000
430 M	Veal-meat byproducts	0.020000	31	1.000	1.000
431 14	Walnut oil	0.012500	0	1.000	1.000

Summary of Residue Distribution Files (RDF) listed in C:\DRESSAC\059201a1.r96

RDF #	File Name	N residues w freq's	N residues w/o freq's	N LODS	LOD Value	N Zeros
1	Phalmpb.rdf	1	0	0	0	91
2	Phapnb.rdf	1	1000	0	0	11688
3	Phappb.rdf	1	94	0	0	1087
4	Phajpb.rdf	2	0	0	0	467
5	Phaprbp.rdf	1	194	0	0	587
6	Phaprnb.rdf	1	1000	0	0	3025
7	Phbbpb.rdf	1	8	0	0	164
8	Phchypb.rdf	1	22	0	0	308
9	Phmk.rdf	1	0	0	0	346
10	Phgppb.rdf	1	20	0	0	1682
11	Phkwnb.rdf	1	20	0	0	228
12	Phnecnb.rdf	1	1000	0	0	3181
13	Phpcnb.rdf	1	1000	0	0	3929
14	Phpccnpb.rdf	1	0	0	0	504
15	Phpcpb.rdf	1	194	0	0	762
16	Phssprnb.rdf	0	91	0	0	102
17	Phprpb.rdf	0	264	0	0	503
18	Phspbp.rdf	1	0	0	0	1371
19	Phpecpb.rdf	1	0	0	0	90
20	Phplnb.rdf	1	1000	0	0	15631
21	Phplpb.rdf	1	194	0	0	3032
22	Phpopbnb.rdf	1	0	0	0	1345
23	Phswpnb.rdf	1	1000	0	0	16118
24	Phswppb.rdf	1	68	0	0	1096
25	Phwalpb.rdf	1	0	0	0	75
26	phbfm.rdf	1	0	0	0	9978
27	phbfft.rdf	1	0	0	0	9978
28	phbfswc.rdf	1	0	0	0	9978
29	phswf.rdf	1	0	0	0	9978
30	phgoatf.rdf	1	0	0	0	73
31	phgoatk.rdf	1	0	0	0	73

Attachment 4. Phosmet Acute Probabilistic Dietary Exposure Analysis: Assessment 1.

U.S. Environmental Protection Agency
 DEEM ACUTE analysis for PHOSMET
 Residue file: 059201a1.r96
 Analysis Date: 08-09-1999/13:12:26 Residue file dated: 07-30-1999/12:29:23/8
 Acute Reference Dose (aRfD) = 0.045000 mg/kg body-wt/day
 NOEL (Acute) = 4.500000 mg/kg body-wt/day
 MC iterations = 1000 MC list in residue file MC seed = 1026
 Run Comment: UF_s = 10 for intra- and 10 for inter-; FQPA SF = 1X [RfD = PAD for acute and chronic]. Includes RDFs for multiple commodities, based on PDP and FDA monitoring data.
 =====

Summary calculations:

	95th Percentile		99th Percentile		99.9th Percentile			
	Exposure	% aRfD	Exposure	% aRfD	MOE	Exposure	% aRfD	MOE
U.S. pop - all seasons:								
0.000148	0.33	30345	0.000340	0.76	13234	0.001480	3.29	3039
All infants (<1 year):								
0.000178	0.40	25262	0.000586	1.30	7680	0.002923	6.50	1539
Nursing infants (<1 year):								
0.000106	0.23	42587	0.000474	1.05	9488	0.004278	9.51	1051
Non-nursing infants (<1 yr):								
0.000205	0.45	21999	0.000544	1.21	8265	0.002318	5.15	1941
Children (1-6 years):								
0.000294	0.65	15308	0.000607	1.35	7414	0.003362	7.47	1338
Children (7-12 years):								
0.000212	0.47	21199	0.000479	1.06	9392	0.002041	4.54	2204
Females (13-19 yrs/np/nn):								
0.000129	0.29	34888	0.000271	0.60	16600	0.000907	2.02	4962
Females (20+ years/np/nn):								
0.000110	0.24	40951	0.000248	0.55	18128	0.001408	3.13	3196
Females (13-50 years):								
0.000117	0.26	38307	0.000254	0.57	17687	0.001310	2.91	3434
Males (13-19 years):								
0.000124	0.28	36323	0.000239	0.53	18853	0.000704	1.57	6389
Males (20+ years):								
0.000129	0.29	34901	0.000259	0.58	17371	0.001104	2.45	4076

Attachment 5. Phosmet Acute Probabilistic Dietary Exposure Analysis: Assessment 2.

U.S. Environmental Protection Agency
 DEEM Acute analysis for PHOSMET
 Residue file name: C:\DRESSAC\059201a2.R96
 Analysis Date 08-09-1999
 Reference dose: aRfD = 0.045 mg/kg bw/day NOEL = 4.5 mg/kg bw/day
 Comment: UFs = 10 for intra- and 10 for inter-; FQPA SF = 1X [RfD = PAD for acute and chronic]. Excludes certain commodities assumed to have negligible residues.

RDF indices and file names for Monte Carlo Analysis

```

1 Phapnb.rdf
2 Phappb.rdf
3 Phaprpb.rdf
4 Phaprnb.rdf
5 phbfm.rdf
6 phbfft.rdf
7 phbfswc.rdf
8 Phbbpb.rdf
9 Phchypb.rdf
10 phgoatf.rdf
11 phgoatk.rdf
12 Phgppb.rdf
13 Phkwnb.rdf
14 Phnecnb.rdf
15 Phpcnb.rdf
16 Phpcpb.rdf
17 Phssprnb.rdf
18 Phprpb.rdf
19 Phplnb.rdf
20 Phplpb.rdf
21 phswf.rdf
22 Phswpnb.rdf
23 Phswppb.rdf

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Food	Crop	Grp	Food Name	RESIDUE (ppm)	RDF	Adj. Factors	Code
					#	#1	#2
7	13B		Blueberries	0.009346	8	1.000	1.000
13	O		Grapes	0.001635	12	1.000	1.000
14	O		Grapes-raisins	0.001635	12	0.920	1.000
15	O		Grapes-juice	0.001635	12	0.680	1.000
52	11		Apples				
			11-Uncooked	0.005476	1	1.000	1.000
			12-Cooked: NFS	0.005476	1	0.050	1.000
			13-Baked	0.005476	1	1.000	1.000
			14-Boiled	0.005476	1	0.050	1.000
			15-Fried	0.005476	1	1.000	1.000
			18-Dried	0.005476	0	0.100	1.000
			31-Canned: NFS	0.005476	2	0.050	1.000
			32-Canned: Cooked	0.005476	2	0.050	1.000
			33-Canned: Baked	0.005476	2	0.050	1.000
			34-Canned: Boiled	0.005476	2	0.050	1.000
			42-Frozen: Cooked	0.005476	2	0.050	1.000
53	11		Apples-dried	0.005476	2	0.100	1.000
56	11		Pears				
			11-Uncooked	0.060339	17	1.000	1.000
			12-Cooked: NFS	0.060339	17	0.050	1.000
			13-Baked	0.060339	17	1.000	1.000
			14-Boiled	0.060339	17	0.050	1.000
			31-Canned: NFS	0.060339	18	0.050	1.000
57	11		Pears-dried	0.060339	18	0.100	1.000
59	12		Apricots				
			11-Uncooked	0.041239	4	1.000	1.000
			12-Cooked: NFS	0.041239	4	0.010	1.000
			14-Boiled	0.041239	4	0.010	1.000
			31-Canned: NFS	0.041239	3	0.010	1.000

Attachment 5. Phosmet Acute Probabilistic Dietary Exposure Analysis: Assessment 2.

		34-Canned: Boiled	0.041239	3	0.010	1.000
60	12	Apricots-dried	0.041239	3	0.320	1.000
61	12	Cherries	0.011745	9	1.000	1.000
62	12	Cherries-dried	0.011745	9	0.920	1.000
63	12	Cherries-juice	0.011745	9	0.680	1.000
64	12	Nectarines	0.024053	14	1.000	1.000
65	12	Peaches				
		11-Uncooked	0.033950	15	1.000	1.000
		12-Cooked: NFS	0.033950	15	0.010	1.000
		13-Baked	0.033950	15	1.000	1.000
		14-Boiled	0.033950	15	0.010	1.000
		31-Canned: NFS	0.000000	0	0.010	1.000
		41-Frozen: NFS	0.033950	16	1.000	1.000
66	12	Peaches-dried	0.033950	16	0.040	1.000
67	12	Plums (damsons)				
		11-Uncooked	0.006872	19	1.000	1.000
		12-Cooked: NFS	0.006872	19	0.010	1.000
		31-Canned: NFS	0.006872	20	0.010	1.000
		42-Frozen: Cooked	0.006872	20	0.010	1.000
		51-Cured: NFS (smoked/p	0.006872	20	0.320	1.000
68	12	Plums-prunes (dried)	0.006872	20	0.320	1.000
69	12	Plums/prune-juice	0.006872	20	0.320	1.000
97	O	Kiwi fruit	0.009360	13	1.000	1.000
218	1CD	Sweet potatoes (incl yams)				
		12-Cooked: NFS	0.006934	22	0.500	1.000
		13-Baked	0.006934	22	0.500	1.000
		14-Boiled	0.006934	22	0.500	1.000
		15-Fried	0.006934	22	0.500	1.000
		32-Canned: Cooked	0.006934	23	0.500	1.000
		34-Canned: Boiled	0.006934	23	0.500	1.000
230	6C	Beans-dry-navy (pea)	0.013500	0	1.000	1.000
240	6C	Peas (garden)-dry	0.013500	0	1.000	1.000
258	6C	Beans-dry-blackeye peas/cowpea	0.013500	0	1.000	1.000
290	O	Cottonseed-oil	0.005000	0	2.000	1.000
291	O	Cottonseed-meal	0.005000	0	1.000	1.000
315	O	Grapes-wine and sherry	0.001635	12	1.000	1.000
321	M	Beef-meat byproducts	0.040000	7	1.000	1.000
322	M	Beef-other organ meats	0.040000	7	1.000	1.000
323	M	Beef-dried	0.036000	5	1.920	1.000
324	M	Beef-fat w/o bones	0.043000	6	1.000	1.000
325	M	Beef-kidney	0.040000	7	1.000	1.000
326	M	Beef-liver	0.040000	7	1.000	1.000
327	M	Beef-lean (fat/free) w/o bones	0.036000	5	1.000	1.000
328	M	Goat-meat byproducts	0.020000	11	1.000	1.000
329	M	Goat-other organ meats	0.020000	11	1.000	1.000
330	M	Goat-fat w/o bone	0.070000	10	1.000	1.000
331	M	Goat-kidney	0.020000	11	1.000	1.000
336	M	Sheep-meat byproducts	0.020000	11	1.000	1.000
337	M	Sheep-other organ meats	0.020000	11	1.000	1.000
338	M	Sheep-fat w/o bone	0.070000	10	1.000	1.000
339	M	Sheep-kidney	0.020000	11	1.000	1.000
342	M	Pork-meat byproducts	0.040000	0	1.000	1.000
343	M	Pork-other organ meats	0.040000	0	1.000	1.000
344	M	Pork-fat w/o bone	0.124000	0	1.000	1.000
345	M	Pork-kidney	0.040000	0	1.000	1.000
346	M	Pork-liver	0.040000	0	1.000	1.000
347	M	Pork-lean (fat free) w/o bone	0.040000	0	1.000	1.000
392	O	Grapes-juice-concentrate	0.001635	12	2.040	1.000
402	12	Peaches-juice	0.033950	16	0.020	1.000
404	11	Pears-juice	0.060339	18	0.110	1.000
410	12	Apricot juice	0.041239	3	0.110	1.000
424	M	Veal-fat w/o bones	0.070000	10	1.000	1.000

Attachment 5. Phosmet Acute Probabilistic Dietary Exposure Analysis: Assessment 2.

426 M	Veal-kidney	0.020000	11	1.000	1.000
428 M	Veal-other organ meats	0.020000	11	1.000	1.000
430 M	Veal-meat byproducts	0.020000	11	1.000	1.000

Summary of Residue Distribution Files (RDF) listed in C:\DRESSAC\059201a2.R96

RDF #	File Name	N residues w freq's	N residues w/o freq's	N LODs	LOD Value	N Zeros
1	Phapnb.rdf	1	1000	0	0	11688
2	Phappb.rdf	1	94	0	0	1087
3	Phaprpb.rdf	1	194	0	0	587
4	Phaprnb.rdf	1	1000	0	0	3025
5	phbfm.rdf	1	0	0	0	9978
6	phbfft.rdf	1	0	0	0	9978
7	phbfswc.rdf	1	0	0	0	9978
8	Phbbpb.rdf	1	8	0	0	164
9	Phchypb.rdf	1	22	0	0	308
10	phgoatf.rdf	1	0	0	0	73
11	phgoatk.rdf	1	0	0	0	73
12	Phgppb.rdf	1	20	0	0	1682
13	Phkwnb.rdf	1	20	0	0	228
14	Phnecnb.rdf	1	1000	0	0	3181
15	Phpcnb.rdf	1	1000	0	0	3929
16	Phpcpb.rdf	1	194	0	0	762
17	Phssprnb.rdf	0	91	0	0	102
18	Phprpb.rdf	0	264	0	0	503
19	Phplnb.rdf	1	1000	0	0	15631
20	Phplpb.rdf	1	194	0	0	3032
21	phswf.rdf	1	0	0	0	9978
22	Phswpnb.rdf	1	1000	0	0	16118
23	Phswppb.rdf	1	68	0	0	1096

Attachment 5. Phosmet Acute Probabilistic Dietary Exposure Analysis: Assessment 2.

U.S. Environmental Protection Agency
 DEEM ACUTE analysis for PHOSMET
 Residue file: 059201a2.R96
 Analysis Date: 08-09-1999/15:33:20 Residue file dated: 07-30-1999/12:26:42/8
 Acute Reference Dose (aRfD) = 0.045000 mg/kg body-wt/day
 NOEL (Acute) = 4.500000 mg/kg body-wt/day
 MC iterations = 1000 MC list in residue file MC seed = 1026
 Run Comment: UF_s = 10 for intra- and 10 for inter-; FQPA SF = 1X [RfD = PAD for acute and chronic]. Excludes certain commodities assumed to have negligible residues.
 =====

Summary calculations:

	95th Percentile		99th Percentile		99.9th Percentile			
	Exposure	% aRfD	Exposure	% aRfD	MOE	Exposure	% aRfD	MOE
<hr/>								
U.S. pop - all seasons:								
0.000140	0.31	32214	0.000324	0.72	13895	0.001474	3.28	3052
All infants (<1 year):								
0.000111	0.25	40707	0.000528	1.17	8530	0.003080	6.84	1461
Nursing infants (<1 year):								
0.000082	0.18	54828	0.000278	0.62	16189	0.004189	9.31	1074
Non-nursing infants (<1 yr):								
0.000150	0.33	29906	0.000574	1.28	7838	0.002562	5.69	1756
Children (1-6 years):								
0.000264	0.59	17029	0.000550	1.22	8183	0.003477	7.73	1294
Children (7-12 years):								
0.000201	0.45	22388	0.000462	1.03	9736	0.002048	4.55	2197
Females (13-19 yrs/np/nn):								
0.000126	0.28	35801	0.000268	0.60	16784	0.000877	1.95	5129
Females (20+ years/np/nn):								
0.000108	0.24	41617	0.000250	0.55	18022	0.001411	3.13	3189
Females (13-50 years):								
0.000114	0.25	39361	0.000254	0.57	17689	0.001317	2.93	3418
Males (13-19 years):								
0.000117	0.26	38327	0.000239	0.53	18851	0.000729	1.62	6170
Males (20+ years):								
0.000125	0.28	35915	0.000261	0.58	17222	0.001102	2.45	4083

Attachment 6. Phosmet Chronic Dietary Exposure Analysis: Assessment 1.

U.S. Environmental Protection Agency
 DEEM Chronic analysis for PHOSMET
 Residue file: C:\DRESSAC\059201r1.R96
 Analysis Date 08-09-1999 Residue file dated: 07-30-1999/12:31:19/8
 Reference dose (RfD) = 0.011 mg/kg bw/day
 Comment:UFs = 10 for intra- and 10 for inter-; FQPA SF = 1X [RfD = PAD for acute and chronic]. Corresponds to Chronic Assessment 1 (includes %LT for pork).

Food Code	Crop Grp	Food Name	RESIDUE (ppm)	Adj. Factors	
				#1	#2
7 13B		Blueberries	0.009346	1.000	1.000
13 0		Grapes	0.001635	1.000	1.000
14 0		Grapes-raisins	0.001635	0.920	1.000
15 0		Grapes-juice	0.001635	0.680	1.000
40 14		Almonds	0.050000	1.000	0.040
41 14		Brazil nuts	0.050000	1.000	0.040
42 14		Cashews	0.050000	1.000	0.040
43 14		Chestnuts	0.050000	1.000	0.040
44 14		Filberts (hazelnuts)	0.050000	1.000	0.040
45 14		Hickory nuts	0.050000	1.000	0.040
46 14		Macadamia nuts (bush nuts)	0.050000	1.000	0.040
47 14		Pecans	0.050000	1.000	0.030
48 14		Walnuts	0.050000	1.000	0.090
49 14		Butter nuts	0.050000	1.000	0.040
51 14		Beech-nuts	0.050000	1.000	0.040
52 11		Apples			
		11-Uncooked	0.004423	1.000	1.000
		12-Cooked: NFS	0.004423	0.050	1.000
		13-Baked	0.004423	1.000	1.000
		14-Boiled	0.004423	0.050	1.000
		15-Fried	0.004423	1.000	1.000
		18-Dried	0.004423	0.100	1.000
		31-Canned: NFS	0.004423	0.050	1.000
		32-Canned: Cooked	0.004423	0.050	1.000
		33-Canned: Baked	0.004423	0.050	1.000
		34-Canned: Boiled	0.004423	0.050	1.000
		42-Frozen: Cooked	0.004423	0.050	1.000
53 11		Apples-dried	0.004423	0.100	1.000
54 11		Apples-juice/cider	0.001542	1.000	1.000
56 11		Pears			
		11-Uncooked	0.060339	1.000	1.000
		12-Cooked: NFS	0.060339	0.050	1.000
		13-Baked	0.060339	1.000	1.000
		14-Boiled	0.060339	0.050	1.000
		31-Canned: NFS	0.060339	0.050	1.000
57 11		Pears-dried	0.060339	0.100	1.000
59 12		Apricots			
		11-Uncooked	0.036079	1.000	1.000
		12-Cooked: NFS	0.036079	0.010	1.000
		14-Boiled	0.036079	0.010	1.000
		31-Canned: NFS	0.036079	0.010	1.000
		34-Canned: Boiled	0.036079	0.010	1.000
60 12		Apricots-dried	0.036079	0.320	1.000
61 12		Cherries	0.011197	1.000	1.000
62 12		Cherries-dried	0.011197	0.920	1.000
63 12		Cherries-juice	0.011197	0.680	1.000
64 12		Nectarines	0.024053	1.000	1.000
65 12		Peaches			
		11-Uncooked	0.033667	1.000	1.000
		12-Cooked: NFS	0.033667	0.010	1.000
		13-Baked	0.033667	1.000	1.000
		14-Boiled	0.033667	0.010	1.000
		31-Canned: NFS	0.000777	1.000	1.000

Attachment 6. Phosmet Chronic Dietary Exposure Analysis: Assessment 1.

		41-Frozen: NFS	0.033667	1.000	1.000
66	12	Peaches-dried	0.033667	0.040	1.000
67	12	Plums (damsons)			
		11-Uncooked	0.006872	1.000	1.000
		12-Cooked: NFS	0.006872	0.010	1.000
		31-Canned: NFS	0.006872	0.010	1.000
		42-Frozen: Cooked	0.006872	0.010	1.000
		51-Cured: NFS (smoked/pickled/saltd)	0.006872	0.320	1.000
68	12	Plums-prunes (dried)	0.006872	0.320	1.000
69	12	Plums/prune-juice	0.006872	0.320	1.000
97	O	Kiwi fruit	0.009360	1.000	1.000
207	1C	Potatoes/white-whole			
		11-Uncooked	0.000071	1.000	1.000
		12-Cooked: NFS	0.000071	0.500	1.000
		13-Baked	0.000071	0.500	1.000
		14-Boiled	0.000071	0.500	1.000
		15-Fried	0.000071	0.500	1.000
		31-Canned: NFS	0.000071	0.500	1.000
208	1C	Potatoes/white-unspecified			
		31-Canned: NFS	0.000071	0.500	1.000
209	1C	Potatoes/white-peeled			
		12-Cooked: NFS	0.000071	0.500	1.000
		13-Baked	0.000071	0.500	1.000
		14-Boiled	0.000071	0.500	1.000
		15-Fried	0.000071	0.500	1.000
		32-Canned: Cooked	0.000071	0.500	1.000
		34-Canned: Boiled	0.000071	0.500	1.000
		42-Frozen: Cooked	0.000071	0.500	1.000
		43-Frozen: Baked	0.000071	0.500	1.000
		45-Frozen: Fried	0.000071	0.500	1.000
210	1C	Potatoes/white-dry			
		12-Cooked: NFS	0.000071	0.500	1.000
		14-Boiled	0.000071	0.500	1.000
		15-Fried	0.000071	0.500	1.000
		31-Canned: NFS	0.000071	0.500	1.000
		34-Canned: Boiled	0.000071	0.500	1.000
		42-Frozen: Cooked	0.000071	0.500	1.000
211	1C	Potatoes/white-peel only			
		13-Baked	0.000071	0.900	1.000
		15-Fried	0.000071	0.900	1.000
218	1CD	Sweet potatoes (incl yams)			
		12-Cooked: NFS	0.006934	0.500	1.000
		13-Baked	0.006934	0.500	1.000
		14-Boiled	0.006934	0.500	1.000
		15-Fried	0.006934	0.500	1.000
		32-Canned: Cooked	0.006934	0.500	1.000
		34-Canned: Boiled	0.006934	0.500	1.000
230	6C	Beans-dry-navy (pea)	0.050000	1.000	0.130
240	6C	Peas (garden)-dry	0.050000	1.000	0.130
241	6AB	Peas (garden)-green	0.000220	1.000	1.000
258	6C	Beans-dry-blackeye peas/cowpea	0.050000	1.000	0.130
290	O	Cottonseed-oil	0.050000	2.000	0.010
291	O	Cottonseed-meal	0.050000	1.000	0.010
315	O	Grapes-wine and sherry	0.001635	1.000	1.000
318	D	Milk-nonfat solids	0.000192	1.000	1.000
319	D	Milk-fat solids	0.000192	1.000	1.000
320	D	Milk sugar (lactose)	0.000192	1.000	1.000
321	M	Beef-meat byproducts	0.040000	1.000	0.001
322	M	Beef-other organ meats	0.040000	1.000	0.001
323	M	Beef-dried	0.036000	1.920	0.001
324	M	Beef-fat w/o bones	0.043000	1.000	0.001

Attachment 6. Phosmet Chronic Dietary Exposure Analysis: Assessment 1.

325 M	Beef-kidney	0.040000	1.000	0.001
326 M	Beef-liver	0.040000	1.000	0.001
327 M	Beef-lean (fat/free) w/o bones	0.036000	1.000	0.001
328 M	Goat-meat byproducts	0.000200	1.000	1.000
329 M	Goat-other organ meats	0.000200	1.000	1.000
330 M	Goat-fat w/o bone	0.000700	1.000	1.000
331 M	Goat-kidney	0.000200	1.000	1.000
333 M	Goat-lean (fat/free) w/o bone	0.000192	1.000	1.000
334 M	Horsemeat	0.000192	1.000	1.000
336 M	Sheep-meat byproducts	0.000200	1.000	1.000
337 M	Sheep-other organ meats	0.000200	1.000	1.000
338 M	Sheep-fat w/o bone	0.000700	1.000	1.000
339 M	Sheep-kidney	0.000200	1.000	1.000
341 M	Sheep-lean (fat free) w/o bone	0.000192	1.000	1.000
342 M	Pork-meat byproducts	0.040000	1.000	0.030
343 M	Pork-other organ meats	0.040000	1.000	0.030
344 M	Pork-fat w/o bone	0.124000	1.000	0.030
345 M	Pork-kidney	0.040000	1.000	0.030
346 M	Pork-liver	0.040000	1.000	0.030
347 M	Pork-lean (fat free) w/o bone	0.040000	1.000	0.030
377 11	Apples-juice-concentrate	0.001542	3.000	1.000
392 O	Grapes-juice-concentrate	0.001635	2.040	1.000
398 D	Milk-based water	0.000192	1.000	1.000
402 12	Peaches-juice	0.033667	0.020	1.000
404 11	Pears-juice	0.060339	0.110	1.000
405 6B	Peas-succulent/blackeye/cowpea	0.000220	1.000	1.000
410 12	Apricot juice	0.036079	0.110	1.000
424 M	Veal-fat w/o bones	0.000700	1.000	1.000
425 M	Veal-lean (fat free) w/o bones	0.000192	1.000	1.000
426 M	Veal-kidney	0.000200	1.000	1.000
428 M	Veal-other organ meats	0.000200	1.000	1.000
429 M	Veal-dried	0.000192	1.920	1.000
430 M	Veal-meat byproducts	0.000200	1.000	1.000
431 14	Walnut oil	0.050000	1.000	0.090

Attachment 6. Phosmet Chronic Dietary Exposure Analysis: Assessment 1.

U.S. Environmental Protection Agency
 DEEM Chronic analysis for PHOSMET
 Residue file name: C:\DRESSAC\059201r1.R96 Adjustment factor #2 used.
 Analysis Date 08-09-1999/16:24:28 Residue file dated: 07-30-1999/12:31:19/8
 Reference dose (RfD, CHRONIC) = .011 mg/kg bw/day
 COMMENT 1: UFs = 10 for intra- and 10 for inter-; FQPA SF = 1X [RfD = PAD for acute and chronic]. Corresponds to Chronic Assessment 1 (includes %LT for pork).
 ======
 Total exposure by population subgroup

Population Subgroup	Total Exposure	
	mg/kg body wt/day	Percent of Rfd
U.S. Population (total)	0.000010	0.1%
U.S. Population (spring season)	0.000009	0.1%
U.S. Population (summer season)	0.000013	0.1%
U.S. Population (autumn season)	0.000010	0.1%
U.S. Population (winter season)	0.000009	0.1%
Northeast region	0.000012	0.1%
Midwest region	0.000010	0.1%
Southern region	0.000009	0.1%
Western region	0.000011	0.1%
Hispanics	0.000009	0.1%
Non-hispanic whites	0.000011	0.1%
Non-hispanic blacks	0.000010	0.1%
Non-hisp/non-white/non-black)	0.000013	0.1%
All infants (< 1 year)	0.000027	0.2%
Nursing infants	0.000023	0.2%
Non-nursing infants	0.000028	0.3%
Children 1-6 yrs	0.000027	0.2%
Children 7-12 yrs	0.000015	0.1%
Females 13-19(not preg or nursing)	0.000006	0.1%
Females 20+ (not preg or nursing)	0.000008	0.1%
Females 13-50 yrs	0.000007	0.1%
Females 13+ (preg/not nursing)	0.000009	0.1%
Females 13+ (nursing)	0.000015	0.1%
Males 13-19 yrs	0.000006	0.1%
Males 20+ yrs	0.000007	0.1%
Seniors 55+	0.000010	0.1%
Pacific Region	0.000012	0.1%

Attachment 7. Phosmet Chronic Dietary Exposure Analysis: Assessment 2.

U.S. Environmental Protection Agency
 DEEM Chronic analysis for PHOSMET
 Residue file: C:\DRESSAC\059201r2.R96
 Analysis Date 08-09-1999 Residue file dated: 07-30-1999/12:33:10/8
 Reference dose (RfD) = 0.011 mg/kg bw/day
 Comment:UFs = 10 for intra- and 10 for inter-; FQPA SF = 1X [RfD = PAD for acute and chronic]. Corresponds to Assessment 2 (includes %LT for pork).

Food Code	Crop Grp	Food Name	RESIDUE (ppm)	Adj. Factors	
				#1	#2
7 13B		Blueberries	0.009346	1.000	1.000
13 O		Grapes	0.001635	1.000	1.000
14 O		Grapes-raisins	0.001635	0.920	1.000
15 O		Grapes-juice	0.001635	0.680	1.000
52 11		Apples			
	11-Uncooked		0.004423	1.000	1.000
	12-Cooked: NFS		0.004423	0.050	1.000
	13-Baked		0.004423	1.000	1.000
	14-Boiled		0.004423	0.050	1.000
	15-Fried		0.004423	1.000	1.000
	18-Dried		0.004423	0.100	1.000
	31-Canned: NFS		0.004423	0.050	1.000
	32-Canned: Cooked		0.004423	0.050	1.000
	33-Canned: Baked		0.004423	0.050	1.000
	34-Canned: Boiled		0.004423	0.050	1.000
	42-Frozen: Cooked		0.004423	0.050	1.000
53 11		Apples-dried	0.004423	0.100	1.000
56 11		Pears			
	11-Uncooked		0.060339	1.000	1.000
	12-Cooked: NFS		0.060339	0.050	1.000
	13-Baked		0.060339	1.000	1.000
	14-Boiled		0.060339	0.050	1.000
	31-Canned: NFS		0.060339	0.050	1.000
57 11		Pears-dried	0.060339	0.100	1.000
59 12		Apricots			
	11-Uncooked		0.036079	1.000	1.000
	12-Cooked: NFS		0.036079	0.010	1.000
	14-Boiled		0.036079	0.010	1.000
	31-Canned: NFS		0.036079	0.010	1.000
	34-Canned: Boiled		0.036079	0.010	1.000
60 12		Apricots-dried	0.036079	0.320	1.000
61 12		Cherries	0.011197	1.000	1.000
62 12		Cherries-dried	0.011197	0.920	1.000
63 12		Cherries-juice	0.011197	0.680	1.000
64 12		Nectarines	0.024053	1.000	1.000
65 12		Peaches			
	11-Uncooked		0.033667	1.000	1.000
	12-Cooked: NFS		0.033667	0.010	1.000
	13-Baked		0.033667	1.000	1.000
	14-Boiled		0.033667	0.010	1.000
	31-Canned: NFS		0.000000	1.000	1.000
	41-Frozen: NFS		0.033667	1.000	1.000
66 12		Peaches-dried	0.033667	0.040	1.000
67 12		Plums (damsons)			
	11-Uncooked		0.006872	1.000	1.000
	12-Cooked: NFS		0.006872	0.010	1.000
	31-Canned: NFS		0.006872	0.010	1.000
	42-Frozen: Cooked		0.006872	0.010	1.000
	51-Cured: NFS (smoked/pickled/saltd)		0.006872	0.320	1.000
68 12		Plums-prunes (dried)	0.006872	0.320	1.000
69 12		Plums/prune-juice	0.006872	0.320	1.000
97 O		Kiwi fruit	0.009360	1.000	1.000

Attachment 7. Phosmet Chronic Dietary Exposure Analysis: Assessment 2.

218 1CD	Sweet potatoes (incl yams)				
	12-Cooked: NFS	0.006934	0.500	1.000	
	13-Baked	0.006934	0.500	1.000	
	14-Boiled	0.006934	0.500	1.000	
	15-Fried	0.006934	0.500	1.000	
	32-Canned: Cooked	0.006934	0.500	1.000	
	34-Canned: Boiled	0.006934	0.500	1.000	
230 6C	Beans-dry-navy (pea)	0.050000	1.000	0.130	
240 6C	Peas (garden)-dry	0.050000	1.000	0.130	
258 6C	Beans-dry-blackeye peas/cowpea	0.050000	1.000	0.130	
290 O	Cottonseed-oil	0.050000	2.000	0.010	
291 O	Cottonseed-meal	0.050000	1.000	0.010	
315 O	Grapes-wine and sherry	0.001635	1.000	1.000	
321 M	Beef-meat byproducts	0.040000	1.000	0.001	
322 M	Beef-other organ meats	0.040000	1.000	0.001	
323 M	Beef-dried	0.036000	1.920	0.001	
324 M	Beef-fat w/o bones	0.043000	1.000	0.001	
325 M	Beef-kidney	0.040000	1.000	0.001	
326 M	Beef-liver	0.040000	1.000	0.001	
327 M	Beef-lean (fat/free) w/o bones	0.036000	1.000	0.001	
328 M	Goat-meat byproducts	0.000200	1.000	1.000	
329 M	Goat-other organ meats	0.000200	1.000	1.000	
330 M	Goat-fat w/o bone	0.000700	1.000	1.000	
331 M	Goat-kidney	0.000200	1.000	1.000	
336 M	Sheep-meat byproducts	0.000200	1.000	1.000	
337 M	Sheep-other organ meats	0.000200	1.000	1.000	
338 M	Sheep-fat w/o bone	0.000700	1.000	1.000	
339 M	Sheep-kidney	0.000200	1.000	1.000	
342 M	Pork-meat byproducts	0.040000	1.000	0.030	
343 M	Pork-other organ meats	0.040000	1.000	0.030	
344 M	Pork-fat w/o bone	0.124000	1.000	0.030	
345 M	Pork-kidney	0.040000	1.000	0.030	
346 M	Pork-liver	0.040000	1.000	0.030	
347 M	Pork-lean (fat free) w/o bone	0.040000	1.000	0.030	
392 O	Grapes-juice-concentrate	0.001635	2.040	1.000	
402 12	Peaches-juice	0.033667	0.020	1.000	
404 11	Pears-juice	0.060339	0.110	1.000	
410 12	Apricot juice	0.036079	0.110	1.000	
424 M	Veal-fat w/o bones	0.000700	1.000	1.000	
426 M	Veal-kidney	0.000200	1.000	1.000	
428 M	Veal-other organ meats	0.000200	1.000	1.000	
430 M	Veal-meat byproducts	0.000200	1.000	1.000	

Attachment 7. Phosmet Chronic Dietary Exposure Analysis: Assessment 2.

U.S. Environmental Protection Agency
 DEEM Chronic analysis for PHOSMET
 Residue file name: C:\DRESSAC\059201r2.R96 Adjustment factor #2 used.
 Analysis Date 08-09-1999/16:26:10 Residue file dated: 07-30-1999/12:33:10/8
 Reference dose (RfD, CHRONIC) = .011 mg/kg bw/day
 COMMENT 1: UFs = 10 for intra- and 10 for inter-; FQPA SF = 1X [RfD = PAD for acute and chronic]. Corresponds to Assessment 2 (includes %LT for pork).
 ======
 Total exposure by population subgroup

Population Subgroup	Total Exposure	
	mg/kg body wt/day	Percent of Rfd
U.S. Population (total)	0.000008	0.1%
U.S. Population (spring season)	0.000007	0.1%
U.S. Population (summer season)	0.000011	0.1%
U.S. Population (autumn season)	0.000008	0.1%
U.S. Population (winter season)	0.000007	0.1%
Northeast region	0.000010	0.1%
Midwest region	0.000007	0.1%
Southern region	0.000007	0.1%
Western region	0.000009	0.1%
Hispanics	0.000006	0.1%
Non-hispanic whites	0.000008	0.1%
Non-hispanic blacks	0.000008	0.1%
Non-hisp/non-white/non-black)	0.000010	0.1%
All infants (< 1 year)	0.000019	0.2%
Nursing infants	0.000019	0.2%
Non-nursing infants	0.000019	0.2%
Children 1-6 yrs	0.000018	0.2%
Children 7-12 yrs	0.000011	0.1%
Females 13-19(not preg or nursing)	0.000004	0.0%
Females 20+ (not preg or nursing)	0.000007	0.1%
Females 13-50 yrs	0.000006	0.1%
Females 13+ (preg/not nursing)	0.000007	0.1%
Females 13+ (nursing)	0.000013	0.1%
Males 13-19 yrs	0.000004	0.0%
Males 20+ yrs	0.000006	0.1%
Seniors 55+	0.000009	0.1%
Pacific Region	0.000010	0.1%

Attachment 8. Phosmet Chronic Dietary Exposure Analysis: Assessment 3.

U.S. Environmental Protection Agency
 DEEM Chronic analysis for PHOSMET
 Residue file: C:\DRESSAC\059201r3.R96
 Analysis Date 08-09-1999 Residue file dated: 07-30-1999/12:34:41/8
 Reference dose (RfD) = 0.011 mg/kg bw/day
 Comment:UFs = 10 for intra- and 10 for inter-; FQPA SF = 1X [RfD = PAD for acute and chronic]. Same as chronic assessment 1, but includes 100%LT for pork.

Food Code	Crop Grp	Food Name	RESIDUE (ppm)	Adj. Factors	
				#1	#2
7 13B		Blueberries	0.009346	1.000	1.000
13 0		Grapes	0.001635	1.000	1.000
14 0		Grapes-raisins	0.001635	0.920	1.000
15 0		Grapes-juice	0.001635	0.680	1.000
40 14		Almonds	0.050000	1.000	0.040
41 14		Brazil nuts	0.050000	1.000	0.040
42 14		Cashews	0.050000	1.000	0.040
43 14		Chestnuts	0.050000	1.000	0.040
44 14		Filberts (hazelnuts)	0.050000	1.000	0.040
45 14		Hickory nuts	0.050000	1.000	0.040
46 14		Macadamia nuts (bush nuts)	0.050000	1.000	0.040
47 14		Pecans	0.050000	1.000	0.030
48 14		Walnuts	0.050000	1.000	0.090
49 14		Butter nuts	0.050000	1.000	0.040
51 14		Beech-nuts	0.050000	1.000	0.040
52 11		Apples			
		11-Uncooked	0.004423	1.000	1.000
		12-Cooked: NFS	0.004423	0.050	1.000
		13-Baked	0.004423	1.000	1.000
		14-Boiled	0.004423	0.050	1.000
		15-Fried	0.004423	1.000	1.000
		18-Dried	0.004423	0.100	1.000
		31-Canned: NFS	0.004423	0.050	1.000
		32-Canned: Cooked	0.004423	0.050	1.000
		33-Canned: Baked	0.004423	0.050	1.000
		34-Canned: Boiled	0.004423	0.050	1.000
		42-Frozen: Cooked	0.004423	0.050	1.000
53 11		Apples-dried	0.004423	0.100	1.000
54 11		Apples-juice/cider	0.001542	1.000	1.000
56 11		Pears			
		11-Uncooked	0.060339	1.000	1.000
		12-Cooked: NFS	0.060339	0.050	1.000
		13-Baked	0.060339	1.000	1.000
		14-Boiled	0.060339	0.050	1.000
		31-Canned: NFS	0.060339	0.050	1.000
57 11		Pears-dried	0.060339	0.100	1.000
59 12		Apricots			
		11-Uncooked	0.036079	1.000	1.000
		12-Cooked: NFS	0.036079	0.010	1.000
		14-Boiled	0.036079	0.010	1.000
		31-Canned: NFS	0.036079	0.010	1.000
		34-Canned: Boiled	0.036079	0.010	1.000
60 12		Apricots-dried	0.036079	0.320	1.000
61 12		Cherries	0.011197	1.000	1.000
62 12		Cherries-dried	0.011197	0.920	1.000
63 12		Cherries-juice	0.011197	0.680	1.000
64 12		Nectarines	0.024053	1.000	1.000
65 12		Peaches			
		11-Uncooked	0.033667	1.000	1.000
		12-Cooked: NFS	0.033667	0.010	1.000
		13-Baked	0.033667	1.000	1.000
		14-Boiled	0.033667	0.010	1.000
		31-Canned: NFS	0.000777	1.000	1.000

Attachment 8. Phosmet Chronic Dietary Exposure Analysis: Assessment 3.

		41-Frozen: NFS	0.033667	1.000	1.000
66	12	Peaches-dried	0.033667	0.040	1.000
67	12	Plums (damsons)			
		11-Uncooked	0.006872	1.000	1.000
		12-Cooked: NFS	0.006872	0.010	1.000
		31-Canned: NFS	0.006872	0.010	1.000
		42-Frozen: Cooked	0.006872	0.010	1.000
		51-Cured: NFS (smoked/pickled/saltd)	0.006872	0.320	1.000
68	12	Plums-prunes (dried)	0.006872	0.320	1.000
69	12	Plums/prune-juice	0.006872	0.320	1.000
97	O	Kiwi fruit	0.009360	1.000	1.000
207	1C	Potatoes/white-whole			
		11-Uncooked	0.000071	1.000	1.000
		12-Cooked: NFS	0.000071	0.500	1.000
		13-Baked	0.000071	0.500	1.000
		14-Boiled	0.000071	0.500	1.000
		15-Fried	0.000071	0.500	1.000
		31-Canned: NFS	0.000071	0.500	1.000
208	1C	Potatoes/white-unspecified			
		31-Canned: NFS	0.000071	0.500	1.000
209	1C	Potatoes/white-peeled			
		12-Cooked: NFS	0.000071	0.500	1.000
		13-Baked	0.000071	0.500	1.000
		14-Boiled	0.000071	0.500	1.000
		15-Fried	0.000071	0.500	1.000
		32-Canned: Cooked	0.000071	0.500	1.000
		34-Canned: Boiled	0.000071	0.500	1.000
		42-Frozen: Cooked	0.000071	0.500	1.000
		43-Frozen: Baked	0.000071	0.500	1.000
		45-Frozen: Fried	0.000071	0.500	1.000
210	1C	Potatoes/white-dry			
		12-Cooked: NFS	0.000071	0.500	1.000
		14-Boiled	0.000071	0.500	1.000
		15-Fried	0.000071	0.500	1.000
		31-Canned: NFS	0.000071	0.500	1.000
		34-Canned: Boiled	0.000071	0.500	1.000
		42-Frozen: Cooked	0.000071	0.500	1.000
211	1C	Potatoes/white-peel only			
		13-Baked	0.000071	0.900	1.000
		15-Fried	0.000071	0.900	1.000
218	1CD	Sweet potatoes (incl yams)			
		12-Cooked: NFS	0.006934	0.500	1.000
		13-Baked	0.006934	0.500	1.000
		14-Boiled	0.006934	0.500	1.000
		15-Fried	0.006934	0.500	1.000
		32-Canned: Cooked	0.006934	0.500	1.000
		34-Canned: Boiled	0.006934	0.500	1.000
230	6C	Beans-dry-navy (pea)	0.050000	1.000	0.130
240	6C	Peas (garden)-dry	0.050000	1.000	0.130
241	6AB	Peas (garden)-green	0.000220	1.000	1.000
258	6C	Beans-dry-blackeye peas/cowpea	0.050000	1.000	0.130
290	O	Cottonseed-oil	0.050000	2.000	0.010
291	O	Cottonseed-meal	0.050000	1.000	0.010
315	O	Grapes-wine and sherry	0.001635	1.000	1.000
318	D	Milk-nonfat solids	0.000192	1.000	1.000
319	D	Milk-fat solids	0.000192	1.000	1.000
320	D	Milk sugar (lactose)	0.000192	1.000	1.000
321	M	Beef-meat byproducts	0.040000	1.000	0.001
322	M	Beef-other organ meats	0.040000	1.000	0.001
323	M	Beef-dried	0.036000	1.920	0.001
324	M	Beef-fat w/o bones	0.043000	1.000	0.001

Attachment 8. Phosmet Chronic Dietary Exposure Analysis: Assessment 3.

325 M	Beef-kidney	0.040000	1.000	0.001
326 M	Beef-liver	0.040000	1.000	0.001
327 M	Beef-lean (fat/free) w/o bones	0.036000	1.000	0.001
328 M	Goat-meat byproducts	0.000200	1.000	1.000
329 M	Goat-other organ meats	0.000200	1.000	1.000
330 M	Goat-fat w/o bone	0.000700	1.000	1.000
331 M	Goat-kidney	0.000200	1.000	1.000
333 M	Goat-lean (fat/free) w/o bone	0.000192	1.000	1.000
334 M	Horsemeat	0.000192	1.000	1.000
336 M	Sheep-meat byproducts	0.000200	1.000	1.000
337 M	Sheep-other organ meats	0.000200	1.000	1.000
338 M	Sheep-fat w/o bone	0.000700	1.000	1.000
339 M	Sheep-kidney	0.000200	1.000	1.000
341 M	Sheep-lean (fat free) w/o bone	0.000192	1.000	1.000
342 M	Pork-meat byproducts	0.040000	1.000	1.000
343 M	Pork-other organ meats	0.040000	1.000	1.000
344 M	Pork-fat w/o bone	0.124000	1.000	1.000
345 M	Pork-kidney	0.040000	1.000	1.000
346 M	Pork-liver	0.040000	1.000	1.000
347 M	Pork-lean (fat free) w/o bone	0.040000	1.000	1.000
377 11	Apples-juice-concentrate	0.001542	3.000	1.000
392 O	Grapes-juice-concentrate	0.001635	2.040	1.000
398 D	Milk-based water	0.000192	1.000	1.000
402 12	Peaches-juice	0.033667	0.020	1.000
404 11	Pears-juice	0.060339	0.110	1.000
405 6B	Peas-succulent/blackeye/cowpea	0.000220	1.000	1.000
410 12	Apricot juice	0.036079	0.110	1.000
424 M	Veal-fat w/o bones	0.000700	1.000	1.000
425 M	Veal-lean (fat free) w/o bones	0.000192	1.000	1.000
426 M	Veal-kidney	0.000200	1.000	1.000
428 M	Veal-other organ meats	0.000200	1.000	1.000
429 M	Veal-dried	0.000192	1.920	1.000
430 M	Veal-meat byproducts	0.000200	1.000	1.000
431 14	Walnut oil	0.050000	1.000	0.090

Attachment 8. Phosmet Chronic Dietary Exposure Analysis: Assessment 3.

U.S. Environmental Protection Agency
 DEEM Chronic analysis for PHOSMET
 Residue file name: C:\DRESSAC\059201r3.R96 Adjustment factor #2 used.
 Analysis Date 08-09-1999/16:15:06 Residue file dated: 07-30-1999/12:34:41/8
 Reference dose (RfD, CHRONIC) = .011 mg/kg bw/day
 COMMENT 1: UFs = 10 for intra- and 10 for inter-; FQPA SF = 1X [RfD = PAD for acute and chronic]. Same as chronic assessment 1, but includes 100%LT for pork.
 ======
 Total exposure by population subgroup

Population Subgroup	Total Exposure	
	mg/kg body wt/day	Percent of Rfd
U.S. Population (total)	0.000036	0.3%
U.S. Population (spring season)	0.000035	0.3%
U.S. Population (summer season)	0.000039	0.4%
U.S. Population (autumn season)	0.000035	0.3%
U.S. Population (winter season)	0.000036	0.3%
Northeast region	0.000036	0.3%
Midwest region	0.000037	0.3%
Southern region	0.000039	0.4%
Western region	0.000031	0.3%
Hispanics	0.000036	0.3%
Non-hispanic whites	0.000035	0.3%
Non-hispanic blacks	0.000046	0.4%
Non-hisp/non-white/non-black)	0.000036	0.3%
All infants (< 1 year)	0.000034	0.3%
Nursing infants	0.000028	0.3%
Non-nursing infants	0.000036	0.3%
Children 1-6 yrs	0.000073	0.7%
Children 7-12 yrs	0.000054	0.5%
Females 13-19(not preg or nursing)	0.000032	0.3%
Females 20+ (not preg or nursing)	0.000027	0.2%
Females 13-50 yrs	0.000028	0.3%
Females 13+ (preg/not nursing)	0.000026	0.2%
Females 13+ (nursing)	0.000040	0.4%
Males 13-19 yrs	0.000034	0.3%
Males 20+ yrs	0.000032	0.3%
Seniors 55+	0.000028	0.3%
Pacific Region	0.000032	0.3%

Attachment 9. Phosmet Chronic Dietary Exposure Analysis: Assessment 4.

U.S. Environmental Protection Agency
 DEEM Chronic analysis for PHOSMET
 Residue file: C:\DRESSAC\059201r4.R96
 Analysis Date 08-09-1999 Residue file dated: 07-30-1999/12:35:32/8
 Reference dose (RfD) = 0.011 mg/kg bw/day
 Comment:UFs = 10 for intra- and 10 for inter-; FQPA SF = 1X [RfD = PAD for acute and chronic]. Same as assessment 2, but includes 100%LT for pork.

Food Code	Crop Grp	Food Name	RESIDUE (ppm)	Adj. Factors	
				#1	#2
7 13B		Blueberries	0.009346	1.000	1.000
13 O		Grapes	0.001635	1.000	1.000
14 O		Grapes-raisins	0.001635	0.920	1.000
15 O		Grapes-juice	0.001635	0.680	1.000
52 11		Apples			
	11-Uncooked		0.004423	1.000	1.000
	12-Cooked: NFS		0.004423	0.050	1.000
	13-Baked		0.004423	1.000	1.000
	14-Boiled		0.004423	0.050	1.000
	15-Fried		0.004423	1.000	1.000
	18-Dried		0.004423	0.100	1.000
	31-Canned: NFS		0.004423	0.050	1.000
	32-Canned: Cooked		0.004423	0.050	1.000
	33-Canned: Baked		0.004423	0.050	1.000
	34-Canned: Boiled		0.004423	0.050	1.000
	42-Frozen: Cooked		0.004423	0.050	1.000
53 11		Apples-dried	0.004423	0.100	1.000
56 11		Pears			
	11-Uncooked		0.060339	1.000	1.000
	12-Cooked: NFS		0.060339	0.050	1.000
	13-Baked		0.060339	1.000	1.000
	14-Boiled		0.060339	0.050	1.000
	31-Canned: NFS		0.060339	0.050	1.000
57 11		Pears-dried	0.060339	0.100	1.000
59 12		Apricots			
	11-Uncooked		0.036079	1.000	1.000
	12-Cooked: NFS		0.036079	0.010	1.000
	14-Boiled		0.036079	0.010	1.000
	31-Canned: NFS		0.036079	0.010	1.000
	34-Canned: Boiled		0.036079	0.010	1.000
60 12		Apricots-dried	0.036079	0.320	1.000
61 12		Cherries	0.011197	1.000	1.000
62 12		Cherries-dried	0.011197	0.920	1.000
63 12		Cherries-juice	0.011197	0.680	1.000
64 12		Nectarines	0.024053	1.000	1.000
65 12		Peaches			
	11-Uncooked		0.033667	1.000	1.000
	12-Cooked: NFS		0.033667	0.010	1.000
	13-Baked		0.033667	1.000	1.000
	14-Boiled		0.033667	0.010	1.000
	31-Canned: NFS		0.000000	1.000	1.000
	41-Frozen: NFS		0.033667	1.000	1.000
66 12		Peaches-dried	0.033667	0.040	1.000
67 12		Plums (damsons)			
	11-Uncooked		0.006872	1.000	1.000
	12-Cooked: NFS		0.006872	0.010	1.000
	31-Canned: NFS		0.006872	0.010	1.000
	42-Frozen: Cooked		0.006872	0.010	1.000
	51-Cured: NFS (smoked/pickled/saltd)		0.006872	0.320	1.000
68 12		Plums-prunes (dried)	0.006872	0.320	1.000
69 12		Plums/prune-juice	0.006872	0.320	1.000
97 O		Kiwi fruit	0.009360	1.000	1.000

Attachment 9. Phosmet Chronic Dietary Exposure Analysis: Assessment 4.

218 1CD	Sweet potatoes (incl yams)				
	12-Cooked: NFS	0.006934	0.500	1.000	
	13-Baked	0.006934	0.500	1.000	
	14-Boiled	0.006934	0.500	1.000	
	15-Fried	0.006934	0.500	1.000	
	32-Canned: Cooked	0.006934	0.500	1.000	
	34-Canned: Boiled	0.006934	0.500	1.000	
230 6C	Beans-dry-navy (pea)	0.050000	1.000	0.130	
240 6C	Peas (garden)-dry	0.050000	1.000	0.130	
258 6C	Beans-dry-blackeye peas/cowpea	0.050000	1.000	0.130	
290 O	Cottonseed-oil	0.050000	2.000	0.010	
291 O	Cottonseed-meal	0.050000	1.000	0.010	
315 O	Grapes-wine and sherry	0.001635	1.000	1.000	
321 M	Beef-meat byproducts	0.040000	1.000	0.001	
322 M	Beef-other organ meats	0.040000	1.000	0.001	
323 M	Beef-dried	0.036000	1.920	0.001	
324 M	Beef-fat w/o bones	0.043000	1.000	0.001	
325 M	Beef-kidney	0.040000	1.000	0.001	
326 M	Beef-liver	0.040000	1.000	0.001	
327 M	Beef-lean (fat/free) w/o bones	0.036000	1.000	0.001	
328 M	Goat-meat byproducts	0.000200	1.000	1.000	
329 M	Goat-other organ meats	0.000200	1.000	1.000	
330 M	Goat-fat w/o bone	0.000700	1.000	1.000	
331 M	Goat-kidney	0.000200	1.000	1.000	
336 M	Sheep-meat byproducts	0.000200	1.000	1.000	
337 M	Sheep-other organ meats	0.000200	1.000	1.000	
338 M	Sheep-fat w/o bone	0.000700	1.000	1.000	
339 M	Sheep-kidney	0.000200	1.000	1.000	
342 M	Pork-meat byproducts	0.040000	1.000	1.000	
343 M	Pork-other organ meats	0.040000	1.000	1.000	
344 M	Pork-fat w/o bone	0.124000	1.000	1.000	
345 M	Pork-kidney	0.040000	1.000	1.000	
346 M	Pork-liver	0.040000	1.000	1.000	
347 M	Pork-lean (fat free) w/o bone	0.040000	1.000	1.000	
392 O	Grapes-juice-concentrate	0.001635	2.040	1.000	
402 12	Peaches-juice	0.033667	0.020	1.000	
404 11	Pears-juice	0.060339	0.110	1.000	
410 12	Apricot juice	0.036079	0.110	1.000	
424 M	Veal-fat w/o bones	0.000700	1.000	1.000	
426 M	Veal-kidney	0.000200	1.000	1.000	
428 M	Veal-other organ meats	0.000200	1.000	1.000	
430 M	Veal-meat byproducts	0.000200	1.000	1.000	

Attachment 9. Phosmet Chronic Dietary Exposure Analysis: Assessment 4.

U.S. Environmental Protection Agency
 DEEM Chronic analysis for PHOSMET
 Residue file name: C:\DRESSAC\059201r4.R96 Adjustment factor #2 used.
 Analysis Date 08-09-1999/16:16:36 Residue file dated: 07-30-1999/12:35:32/8
 Reference dose (RfD, CHRONIC) = .011 mg/kg bw/day
 COMMENT 1: UFs = 10 for intra- and 10 for inter-; FQPA SF = 1X [RfD = PAD for acute and chronic].
 Same as assessment 2, but includes 100%LT for pork.
 ======
 Total exposure by population subgroup

Population Subgroup	Total Exposure	
	mg/kg body wt/day	Percent of Rfd
U.S. Population (total)	0.000034	0.3%
U.S. Population (spring season)	0.000033	0.3%
U.S. Population (summer season)	0.000036	0.3%
U.S. Population (autumn season)	0.000033	0.3%
U.S. Population (winter season)	0.000034	0.3%
Northeast region	0.000034	0.3%
Midwest region	0.000035	0.3%
Southern region	0.000037	0.3%
Western region	0.000029	0.3%
Hispanics	0.000033	0.3%
Non-hispanic whites	0.000032	0.3%
Non-hispanic blacks	0.000045	0.4%
Non-hisp/non-white/non-black)	0.000033	0.3%
All infants (< 1 year)	0.000026	0.2%
Nursing infants	0.000024	0.2%
Non-nursing infants	0.000028	0.3%
Children 1-6 yrs	0.000063	0.6%
Children 7-12 yrs	0.000050	0.5%
Females 13-19(not preg or nursing)	0.000030	0.3%
Females 20+ (not preg or nursing)	0.000026	0.2%
Females 13-50 yrs	0.000027	0.2%
Females 13+ (preg/not nursing)	0.000024	0.2%
Females 13+ (nursing)	0.000038	0.3%
Males 13-19 yrs	0.000032	0.3%
Males 20+ yrs	0.000031	0.3%
Seniors 55+	0.000027	0.2%
Pacific Region	0.000030	0.3%